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HOT LINE

Hearings on the Hébert retired-officer-employment proposal will resume shortly after Washington's Birthday. This will follow conclusion of the House Armed Services Committee action on the annual military construction authorization bill. See page 2 for a rundown on Civil Service Commission objections to the Hébert proposal.

Services Are In Stew Over Hospital Food

THE Services cannot agree on the recipe for providing tasty and economical food in their hospitals.

Whether it is better to take a dietitian and train her thoroughly or to take a Medical Service Corps officer and send him to Cornell University for two years is the question.

The Army and Air Force say they are pleased with results they obtain by placing dieticians at the head of hospital food service departments.

The Navy, however, says best results are obtained by sending Medical Service

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BEST FITTED OF ALL

Cof S Lemnitzer Tells Army Space Role

THE Army has declared that, of all the Services, it is "best fitted" for overall responsibility for development and support of communication satellites, mapping and geodesy satellites, a space surveillance system, and an anti-satellite defense system.

General Lyman L. Lemnitzer, Cof S, maintains that "other Services may well participate," but the Army believes it should hold prime responsibility for such space work.

"In view of its uniqueness and its military potential for all the Services," says General Lemnitzer, "space transcends the exclusive interest of any one military service."

General Lemnitzer says that "military exploration of space should be a unified military effort under a joint military organization."

The Cof S has defined what he believes the Army's role in space should be in a comprehensive statement to the House Military Appropriations Subcommittee. THE JOURNAL publishes the text of General Lemnitzer's presentation—certain to create controversial interest—beginning on Page 5.

Silent Filibuster Hurts Pay Equity

PRESIDENT Eisenhower's request for legislation to eliminate pay inequities in the Armed Forces has been hit by a silent filibuster.

A single Senator is thwarting action on legislation to equalize retired pay.

The fear that Senator John Stennis (D-Miss.) will take advantage of the pay equity legislation to open up the entire problem of retired pay and seek action on a contributory system has prompted the House Armed Services Committee to delay action on the President's request.

Strangely, in view of the Chief Executive's statements on the need for the retired pay revision, top Pentagon officials have been extremely reluctant to press the issue in public statements.

A build-up of support for pay equalization, particularly on Capitol Hill, is seen by many Service observers as the main hope to overcome the tactics which Senator Stennis has employed.

It is possible that Pentagon officials have decided to hold their fire on the pay equalization problem until after the Senate completes Civil Rights action. This would likely be in March.

Large
New Navy Personnel
Chief Takes Oath



ADM. William R. Smedberg, III, left, takes the oath of office as Chief of the Bureau of Naval Personnel from RADM. Chester C. Ward, Judge Advocate General, as Secretary William B. Franke watches. Admiral Smedberg, who had been Second Fleet Commander, succeeds Admiral H. P. Smith, newly named Cinc of U. S. Naval Forces Eastern Atlantic and Mediterranean.

ENOUGH OF THE ACCENT ON THE "GAP": LET'S GET AHEAD AND STAY AHEAD

DURING the past months—and it's likely to continue—the "missile gap" and "deterrent gap" controversy has overwhelmed the American public. In the best traditions of a democracy, honest men on both sides of the issue have stated their honest convictions.

It is the opinion of THE JOURNAL that the time now has come to devote considerably less of our National energy to the "battle of the gap" and instead to harness our full resources to the critical challenge of attaining and maintaining indisputable leadership in the missile-space field.

In the issues of 8 and 13 February and in the news columns of this issue, a JOURNAL staff member participating in the ARDC National Press Tour has written on-the-scene reports of progress and problems from vital defense-industry facilities across the country.

The fundamental impression he gained is told in an editorial on page 10. It is this: the United States Armed Forces and United States Industry today have the technological know-how and the manpower resources to hurdle the "gap" and gain the lead that will assure victory—"Peace With Justice."

What is needed is a clear directive from Washington that this objective will be given the highest possible priority, and that whatever fiscal support is required will be forthcoming. The Services and Industry await such a directive.

AF GENERAL BACKS ARMY ZEUS MISSILE

General Laurence S. Kuter, USAF, who is Cinc of the North American Air Defense Command, has given new backing to the Army Zeus anti-missile missile program.

In a closed-door session 11 February to an all-Service audience at the Industrial College of the Armed Forces, Ft. McNair, Washington, D. C., General Kuter stressed the importance of developing an anti-missile missile capability as rapidly as possible.

There is no question that his views on Zeus will figure prominently in forthcoming Congressional decisions concerning the fate of fiscal support for the Zeus effort.

II Corps Leaders



MAJOR General Raymond W. Curtis, CG, II Army Corps, Camp Kilmer, N. J., left, is shown with Col. Marvin J. Coyle, Deputy Corps Commander. For a special anniversary report on II Corps, turn to page 3.

Boy Scout Badge For The JCS Chairman



A FEATURE of Boy Scout Week, which began 7 February, was the presentation to General Nathan F. Twinning, JCS Chairman, of a miniature Scout badge by Warren Holmes, II, the son of Lt. Col. and Mrs. Warren H. Holmes, USAF.

Rocket Plane In The Sky, Missile Hole In The Ground Feature Aerospace Activities At Huge Desert Flight Test Center

USAF FLIGHT TEST CENTER
EDWARDS AFB, CALIF.

HIGH up in the sky, where the rocket-powered X-15 flies, and far down in the ground, where a prototype Minuteman ICBM rests, the Air Force Flight Test Center in the Mojave Desert is playing a vital role in the Nation's aerospace effort.

It's a changing role. The historic primary mission at Edwards of flight testing manned aircraft which operate in

the atmosphere is paralleled now and may be surpassed in the next few years by a new mission related to development and test of missile facilities and rocket engines.

Edwards has been given an important assignment in strengthening the "blue suit" missile operational capability.

But looking further down the road, the likelihood is that the Flight Test Center will be given a revitalized manned aircraft mission in connection with mili-

tary utilization of space.

Meeting here last week with newsmen on the ARDC National Press Tour, Brig. Gen. John W. Carpenter, III, Flight Test Center Commander, said:

"I want to assure you that we feel that there is absolutely no question that manned vehicles will continue to be a necessity in aerospace exploration and aerospace warfare."

Last week's issue of THE JOURNAL dis-
—Continued on page 29

Civil Service Commission Tells Major Objections To Hébert Legislative Proposal

WHEN the full House Armed Services Committee again takes up the Hébert Bill on retired-officer-employment it will consider a number of major objections raised by the Civil Service Commission (THE JOURNAL, 13 February).

Military families, who have a considerable stake in the Committee's final action, will want to know exactly what the Commission objected to, and why.

Here are the major provisions of the Hébert Bill, to which the CSC objects, together with the Commission's comments:

The Hébert legislation provides a criminal penalty for commissioned officers or civilian employees who within two years after leaving the Department of Defense receive compensation or anything of value for any service in a transaction, the purpose of which is directly or indirectly to sell anything to the Department of Defense.

CSC says this section "would appear to prohibit employment in practically any capacity with defense contractors of civilians and commissioned officers who have been separated within two years from the Department of Defense. If it does not

completely prohibit such employment, where would the line be drawn?

"For example, if a retired commissioned officer, who is an aeronautical engineer, were hired by a manufacturer of airplanes to work on design of engines for military aircraft, would he be considered as hired for the purpose of selling directly or indirectly anything to the Department of Defense within the meaning of this section? If strictly interpreted, this prohibition could in our present economy reduce many Department of Defense employees and military officers to a state of peonage.

"There are at present, and apparently will be in the future, numerous involuntary separations of civilian and military personnel in the Department of Defense. Some of these people will qualify only for employment with the Government or in work done by Department of Defense contractors. It seems particularly unfair to preclude employment for such persons by defense contractors."

Dual-Employment, Dual-Compensation

The legislation amends the dual-employment, dual-compensation laws to:

1—Permit employment in the Defense Department of Regular officers retired for length of service. They cannot now generally be employed in any part of the Federal Government.

2—Authorize the Secretary of Defense to employ a limited number of exceptionally qualified Regular retired officers in the Defense Department without imposing a \$10,000 limitation on their combined retired pay and civil salary.

3—Give officers in the second category a temporary renewable appointment under which they would accrue no additional retirement benefits, and

4—Permit Presidential nominees who are named to Defense Department posts to receive both the civilian pay of the office and any retired pay to which they are entitled.

The CSC states: "Amendment of the dual-employment, dual-compensation laws to permit the employment of Regular officers retired for service only by the Department of Defense seems inequitable and adds an additional complication to an already over-complicated subject. While we believe it desirable to repeal the present laws and substitute a single, clear and equitable statute, we would have no objections to these provisions if they were extended to the total Federal government."

The Commission said, while it agrees the present laws on this subject are "inadequate, inequitable, and overly complex, we recommend that no action be taken until comprehensive revisions can be considered." However, the Commission added that it would not object to the Hébert proposal in this respect, provided certain technical amendments are made and provided the new rules are extended "to all parts of the Federal service."

Prohibition on Activities

The Hébert Bill would prohibit any Federal employee, officer or official from giving aid or assistance to "anyone before any department, agency, court-martial, officer, or any civil, military, or naval commission in connection with any proceeding, contract, claim, controversy, charge, accusation, arrest, or other matter in which the United States is a party or directly or indirectly interested."

The Commission believes "a literal reading" of this section "would appear to prohibit any officer or employee from assisting in any matter in which the United States is a party or directly or indirectly interested."

"We believe it is likely that this section would prohibit an employee from preparing an income tax report for a member of his family; would seriously interfere with the proper administration of estates or guardianship responsibilities by Federal employees for friends or relatives; would prohibit one Government employee from representing another in disciplinary, loyalty, or other personnel proceedings; and would prohibit a Federal employee from serving as a character witness in an administrative or court action."

L/C Moore At Ft. Lewis

Lt. Col. Harold H. Moore has replaced Col. George A. Traeger as Ft. Lewis Wash., Quartermaster. Colonel Traeger has received orders to Turkey.

Colonel Moore had commanded the 94th Battalion at Ft. Lee, Va.

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II Army Corps, 293,000 Strong, Reaches 42d Birthday 20 February

Army Navy Air Force Journal 3
20 Feb. 1960 (Vol. 97, P. 671)

HAILED this week by Secretary William M. Brucker for a "splendid record" of service, the II Army Corps, under command of Maj. Gen. Raymond W. Curtis, celebrates its 42d birthday on 20 February with a strength of 293,000 officers and men.

General Curtis, as Corps Commander, is responsible to the First Army Commander for achieving maximum combat readiness among Army Reservists in New York and New Jersey.

In an interview here on the eve of the Corps' birthday celebration, mark-

ing its activation 20 February 1918 in France, General Curtis, who will be 56 on 22 February, said that the Corps now has 34,000 enlisted men and 6000 officers in drill pay status. He said this is "right up to our ceiling."

Among the hundreds of units in the Corps is an Air Reconnaissance Support Battalion, the only one of its kind on the Reserve troop list.

The Corps structure also includes 3 divisions, one of two engineer amphibious support commands in the Reserve, and a Special Forces unit.

A key facility in the Corps is the mammoth New York City Reserve Training Center at 529 West 42d Street. Largest of its kind in the Nation, this Center,

although designed to handle about 5000 Reservists, actually is providing training accommodations for more than 8000. Its new commanding officer is Col. Harry Hale.

General Curtis, his Deputy, Col. Marvin J. Coyle, and his CofS, Col. Louis Büttner, together with the Corps Staff, are busy with preliminary planning for the annual summer encampment which will see thousands of II Corps troops undergoing field tests.

Under orders from the Continental Army Command, headed by General Brucke C. Clarke, at Ft. Monroe, Va., the II Corps and the other Corps headquarters which are responsible for the

—Continued on page 26

II Corps Roster

FT. DIX, N. J.

Under Maj. Gen. Raymond W. Curtis, Commanding General, here is the roster of principal staff officers and commanders of the II Army Corps:

STAFF OFFICERS

Col. Marvin J. Coyle, Deputy Corps Commander
Col. Raymond G. Curtin, Deputy Corps Commander for ROTC Affairs
Col. Louis Buttner, CofS
Lt. Col. Riley V. Jackson, Secretary to the General Staff
Col. Henry G. Thomas, G1
Maj. John P. Reisinger, VI, G2
Lt. Col. John T. Browne, G3
Lt. Col. Joseph W. Bilello, G4
Col. William N. Cogswell, Adjutant General
Lt. Col. James V. Marsh, Comptroller
Mr. Paul Zar, Information Officer
Lt. Col. James H. Porter, Inspector General
Lt. Col. Earle H. Jordan, Deputy Post Commander of Camp Kilmer

SECTOR COMMANDERS

Col. Henry L. Davison, Southern New York
Col. Franklin G. Rothwell, New Jersey
Col. Dennis J. McMahon, Northern New York

SUBSECTOR COMMANDERS

Northern New York Sector
Lt. Col. LeRoy S. Copp, Buffalo
Maj. Leland E. Carr, Schenectady
Maj. Richard T. Wilker, Plattsburg
Col. Dennis J. McMahon, Syracuse
Lt. Col. Francis P. LeMere, Watertown
Lt. Col. Wilson H. Birch, Rochester

Southern New York Sector

Col. Charles H. Jones, Jr., Manhattan
Col. Earl M. Cooper, Long Island
Lt. Col. Anthony J. Malankowski, Bronx

New Jersey Sector

Lt. Col. George E. Bennett, Camden
Lt. Col. Harry V. Douglas, Newark
Lt. Col. Byrl D. Taylor, New Brunswick

GENERAL OFFICER COMMANDERS

Maj. Gen. John W. Kaine, 77th Infantry Division
Maj. Gen. Henry Nulton, 78th Division (Training)
Maj. Gen. James C. Mott, 98th Division (Training)
Maj. Gen. Edward J. McGrew, Jr., 301st Logistical Command C
Brig. Gen. Frank L. Lazarus, 300th Antiaircraft Artillery Brigade
Brig. Gen. Charles B. Ferris, 410th Engineer Command (Amphibious Support)
Brig. Gen. Frank I. Pethick, Jr., 411th Engineer Brigade
Brig. Gen. Harry E. Besley, 419th Engineer Brigade
Brig. Gen. David E. Mayer, 818th Hospital Center

Eight Make Colonel

Eight officers have been promoted to temporary colonel with rank from 15 February in Army Special Orders 32.

Those promoted include lieutenant colonels through sequence number 178, Army Promotion List, DA Circular 624-73, dated 23 November 1959.

Booth, L. E., Jr. Arm. Price, N. F. QMC
Faulds, J. M. SigC Van Sloun, P. W.
Frye, J. A. Inf. SigC
Lynch, W. F. CmlC Whitsett, W. L. QMC
Parsons, W. J. OrdC

OLYMPIC VETERAN

General Curtis, USMA '27, was a member of the U. S. Equestrian Teams which participated in the Olympic Games of 1932 and 1936.

Before taking command of II Corps in 1959, he was Chief of the Joint U. S. Military Assistance Advisory Group in Korea.

General Curtis is married to the former Rebecca M. Gonzalez of San Diego. They have two daughters, Norma, who is married to Capt. Wallace C. Steiger, Jr., and Mary Anne, the wife of First Lt. Charles L. Williams, 3d.

SURVEILLANCE DRONE SYSTEMS BY AEROJET

The Army's AN/USD-2 is today's most advanced drone system for gathering information on enemy battlefields. This high-priority Army program is a major part of Aerojet's acquisition of the Rheem Defense and Technical Products Division at Downey, California. Under the cognizance of Aerojet's Aeronautical Division, the SD-2 project is receiving increased emphasis during its advanced system development stages.

Developed for the Army Signal Corps, the SD-2 is launched from a standard Army trailer and flown by remote control to survey enemy positions. Its sensory compartment accommodates photo transmission systems, infrared, radar or other new electronic devices that transmit or bring back data. Outstanding characteristics of the SD-2 are the stable flight platform, sophisticated navigational system and unique parachute recovery, which make it ideal for a variety of military assignments.



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Army Tells Plan For EM Boosts

The Army has released the following temporary promotion quotas for April:

Grade	Quota
E-9	260
E-8	575
E-7	185
E-6	170
E-5	2138
E-4	7719

Cols. Brown, Hahn In Logistical Move

Col. Travis T. Brown, Commander of the 2d Logistical Command, Ft. Ord, Calif., will take command of the New Cumberland, Pa., General Depot.

He will be succeeded by Col. Russell S. Hahn, formerly 2d Deputy Commander and CofS.

Before his assignment to Ord, Colonel Brown, a USMA '34 graduate, commanded the Quartermaster Depot in Giessen, Germany.

Colonel Hahn was Chief of the Military Personnel Division, in the Office of the Army Chief of Transportation, Washington, D. C., before his assignment to the 2d last August.

Col. Johnson Gets Baltimore District

Col. Warren R. Johnson will be assigned as District Engineer for the Army Corps of Engineers at Baltimore this summer.

He will succeed Col. Stanley T. B. Johnson, who is being assigned to the Office, Chief of Engineers, Washington, D. C.

Colonel Johnson now commands the 151st Engineer Group at Ft. Benning, Ga.

Col. John Allen Will Head D. C. Engineer Unit

Col. John U. Allen will be assigned as District Engineer for the Army Corps of Engineers in Washington, D. C. 1 November 1960.

He will succeed Col. George B. Sumner, who is retiring effective 31 October.

Colonel Allen is presently assigned to U. S. Army, Europe as CofS, 4th Logistical Command.

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West Coast: Bill Aitken Agency, 849 Abrego St., Monterey, Calif., Frontier 2-8031

Birmingham Gets New AUSA Chapter

A new chapter of the Association of the United States Army has been organized in Birmingham, Ala., with Mr. Roy Hickman, Past President of the Chamber of Commerce, as President.

Other officers selected by the nominating committee headed by Dr. John Bryan, Executive Secretary of the Chamber of Commerce and Mr. W. Cooper Green, Vice-President of Alabama Power Company, were Mr. Mark Phillips, Anniston, 1st Vice-President, Mr. Raymond Weeks, 2nd Vice-President and Mr. Robert Crowder, Secretary-Treasurer.

The new chapter will be known as the "Heart of Dixie" chapter.

U. S. ARMY ORDERS

Wilber M. Brucker—Secretary of the Army
Hugh M. Milton, II—Under Secretary of the Army
Dewey Short—Assistant Secretary (Manpower & Reserve Forces)
Courtney Johnson—Assistant Secretary (Logistics)
George H. Roderick—Assistant Secretary (Financial Management)
Richard S. Morse—Director, Research and Development
General Lyman Lemnitzer—Chief of Staff

GENERAL OFFICERS—

Maj General

Calloway, Charles G., Natick, Mass., to OTQMG USA, Wash, DC.

Brig General

Burger, Vonna F., is retired 1 Apr.
Frederick, William R., is ret 1 Apr.
Bigelow, Horace F., dtl as Dep C of Ord, eff 2 Feb.

Lane, John J., dtl as Asst C of T for Mil Op, eff 2 Feb.
Darnell, Carl, Jr., Ft Bliss, to EUSA, Korea.
Johnson, Dwight B., EUSA, to USA Elm Flt Comd DASA, Sandia Base, NMex.
Conway, Theodore J., Yongsan, Korea, to 82d Abn Div, Ft Bragg.
Jablonsky, Harvey J., Ft Bragg, to EUSA, Korea.

—Continued on page 13

Checking Einstein with a



Army "Best Fitted" Of All Services For Certain Space Missions, CoS Lemnitzer Says

GENERAL Lyman L. Lemnitzer has presented to Congress the most comprehensive statement ever made by a top official concerning the Army's role in space.

The CoS made his remarks in response to questions posed to him during House Military Appropriations Subcommittee hearings on the fiscal '61 budget.

Here is the text of the Q&A.

1. What is the Army's role in space?

General Lemnitzer: 1. The Army conceives its role in space in the following general context:

(a) Space is a newly attainable, virtually unexplored medium; it is properly

considered a fourth environment, distinct from land, sea, and air and possessing such unique characteristics as no atmosphere, high vacuum, extraordinary extremes of temperature, lethal radiation, weightlessness, motion by means of gravitational force, and velocities of totally unprecedented magnitude. The physical magnitude of this environment and the scope of effort entailed in its conquest stagger the imagination. An unequalled national effort is involved.

(b) Space as an arena of military operations is only conjectural at this time. It is our national policy that activities in space should be devoted to peaceful pur-

poses for the benefit of all mankind. Nevertheless, we must bear in mind the fact that it is most difficult, if not impossible, to distinguish civilian from military space applications particularly on the part of other nations. We cannot afford to become so preoccupied with space only as an arena for scientific endeavor that we some day find ourselves unable to exercise an option between peaceful and military applications of space.

(c) The military space program should be developed in such a context and under the following concepts:

(1) Attempt to fix military responsibilities by automatic extrapolation of

earth roles and missions is not meaningful. As example, the lack of an aero-dynamic atmosphere or free water on the moon would hardly justify a pre-emptive Army claim to lunar operations.

(2) Military exploitation of space offers opportunity for all services to improve their performance of earth roles and missions, plus the possibility of operations in space itself.

(3) In view of its uniqueness and its military potential for all services, space transcends the exclusive interest of any one military service.

2. Within the framework of this philosophy, the Army considers its role in space to be as follows:

(a) Space activities to support its present roles and missions: Such activities can improve, and in some respects contribute uniquely to the Army's present capabilities. Examples are communication satellites; satellites for mapping and geodesy to extend geodetic control into inaccessible and unexplored areas of the earth; meteorological satellites to provide improved information for commanders of the land battle; reconnaissance satellites to serve these commanders as well as others. Based on technical considerations, early defense of earth against hostile space objects appears best realizable by extension of antimissile defense systems, an area in which the Army also has an interest under its presently assigned missions.

The Army does not lay pre-emptive claim to development or operation of all of these systems in which it has an interest. As discussed below, the Army seeks primary responsibility for certain of these, but its interests range over a wide spectrum of participation, from that of prime responsibility, to the role of a "user" of an end product (e.g., strategic intelligence).

(b) Support of Department of Defense space projects (as directed and funded): In the past the Army has conducted numerous research projects for DoD as awarded and funded by the Advance Research Projects Agency (ARPA). Some principal ones have been the SATURN booster program, advanced research into satellite communications, satellite surveillance, and tracking.

(c) Support of nonmilitary space programs as directed: The transfer to NASA proposed for the Development Operations Division of ABMA is perhaps the outstanding example of this aspect of Army

—Continued on page 23



PURITY PLUS—Hughes Products Division engineer checks semiconductor materials to insure purity.



EXIT CONES capable of withstanding temperatures of 6000° F. represent one example of advanced engineering being performed by the Hughes Plastics Laboratory.

With an atomic clock in orbit

To test Einstein's general theory of relativity, scientists at the Hughes research laboratories are developing a thirty pound atomic maser clock (see photo at left) under contract to the National Aeronautics and Space Administration. Orbiting in a satellite, a master clock will be compared with another on the ground to check Einstein's proposition that time flows faster as gravitational pull decreases.

Working from the new research center in Malibu, California, Hughes engineers will develop a MASER (Microwave Amplification through Stimulated Emission of Radiation) clock so accurate that it will neither gain nor lose a single second in 1000 years. This clock, one of three types contracted for by NASA, will measure time directly from the vibrations of the atoms in ammonia molecules.

Before launching, this atomic clock will be synchronized with another on the ground. Each clock will generate a highly stable current with a frequency of billions of cycles per second. Electronic circuitry reduces the rapid oscillations to a slower rate in order to make precise laboratory measurements. The time "ticks" from the orbiting clock will then be transmitted by radio to compare with the time of the clock on earth. By measuring the difference, scientists will be able to check Einstein's theories.

Research like this, brought to practical fruition, has resulted in dozens of important electronic systems

for our Armed Forces including: the highly reliable Falcon air-to-air guided missile; the world's first three-dimensional scanning radar; advanced airborne control systems; advanced data handling and display systems; global and spatial communications systems and ballistic missile systems.

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Nuclear Course Precedes Transfer To Ft. Monroe

Col. Fred M. Kroschel, jr., Chief of the Investigation and Claims Division, Fourth Army Inspector General's Section at Ft. Sam Houston, Tex., is at Sandia Base, N. M., attending a three month Ordnance Nuclear Support Course.

Upon its completion, he will be assigned to Ft. Monroe, Va.

His wife, Edith, and two sons, Michael, 15, and Max, 11, will accompany him to his new assignment.

Col. Schendel Will Join Gen. Ruffner At Pentagon

Col. Harry A. Schendel, jr., Third Army's Information Officer since July 1958, will leave Ft. McPherson, Ga., next month for assignment in Washington.

He will be Executive Officer to Lt. Gen. Clark L. Ruffner, Departing Third Army Commander, who will be promoted to four star rank when he becomes the U. S. Representative to the Military Committee and Standing Group of NATO 1 March.

At Norwich University, Vt., General Ruffner, then Captain Ruffner in 1938, was Assistant PMS&T and Colonel Schendel was a sophomore cadet.

Colonel Schendel is married to the former Betty Anne Nelson, whose mother, Mrs. Lorna B. Nelson lives at 6122 W. Blackburn Ave., Los Angeles, Calif. His mother, Mrs. Harry A. Schendel, sr., resides at 5008 N. Carlyn Spring Rd., Arlington, Va.

Cdr. McDermott Heads Beach Master Unit Two

Cdr. Frederick P. McDermott has relieved Cdr. Paul J. Vidani, jr., as Commanding Officer of Beach Master Unit Two at the Naval Amphibious Base, Little Creek, Va.

Commander Vidani will report to Ninth Naval District Headquarters, Great Lakes, Ill. Commander McDermott was former Assistant Operations Officer on the staff of VAdm. George C. Towner, Commander Atlantic Fleet Amphibious Force.

Marines Slate Arms Competition

The Marine Corps Competition-in-Arms Program for 1960 is announced as follows:

Pacific Division, MarBks, USNB Pearl Harbor, 9-14 May.

Eastern Division, MCB, Camp Lejeune, N. C., 9-14 May.

Western Division, MCRDep, San Diego, 16-21 May.

Marine Corps, MCRDep, San Diego, 6-11 June.

U. S. NAVY ORDERS

William B. Franke—Secretary of the Navy
Fred A. Bantz—Under Secretary of the Navy
James H. Wakelin, Jr.—Assistant Secretary (Research & Development)
Cecil P. Milne—Assistant Secretary (Material)
Richard Jackson—Assistant Secretary (Manpower, Personnel & Reserve Forces)
Admiral Arleigh A. Burke—Chief of Naval Operations

CAPTAIN

Adair, Jamie, BuShips; to PearlNavShipYd. Anderson, Richard K., CO and Dir NavMine DefLab; to ONM NavDept. Andrews, Burton H., MareNavShipYd; to CO and Dir NavUnderwater SoundLab Fort Trumbull, NLondon. Ankers, George M., NorfolkNavShipYd; to InsMat LosA.

(Marine Corps Orders, Page 29)

Capt. Harmon Commands Attack Transport Rankin

Capt. Leonard E. Harmon has relieved Capt. J. S. C. Gabbert as commanding officer of the attack transport ship, Rankin at the Naval station Roosevelt Roads, P. R.

Captain Gabbert will assume command of Amphibious Squadron Eight in the Mediterranean. Captain Harmon had been commanding officer of Air Transport Squadron, VR-24.

Archer, Stephen M., ComDesFlotFive; to Cofs and Aide ComHawaiianSeaFront. Bennett, Bradley F., ONR BrOfc London; to INM NavDept.

Berg, Alvin C., CO NavCICscol NAS Glynn; to A1USNA Athens. Bernard, William B., BuShips; to IndMan 9ND.

Blackwood, Herbert B., ONM NavDept; to InsMat Atla. Blouin, Francis J., OpNav; to Secy JCS WashDC.

Brinkloe, William D., Jr., SecAcademicBd and Aide to Supt USNA; to PhilaNavShip Yd.

Bush, William W., Jr., XO NAS NorVa; to CO NavCICscol NAS Glynn. Coyl, Edwin H. (MC), CO NavHosp NavB Newport; to InsGen MedDeptActy BuMed.

Dolan, John W., Jr., PugetSoundNavShipYd; to BuShips.

Doyle, Thomas J. (CEC), BuDocks; to CO NavPWCen NavB Subic Bay. Green, Richard O., DesDiv 192; to CO USS Woodpecker.

Gordon, William M. (CEC), CO NavPWCen NavB Subic Bay; to XO NavCBcen For Hue.

Heinz, Vernet H. (MC), USS Oriskany; to NAS Seattle.

Howard, Ezra G., OpNav; to INM NavDept. Johnson, Charles H., Jr., CO USS Vesuvius; to CO NavHarDefU SFRan Fort Miley. Johnson, Clifford A., Cofs and Aide Com NavB Norfolk; to Cofs and Aide Com Five.

Kingston, John J., Jr., MinRon Seven Tem; to CO USS Frigate Bird. Kinter, Edwin G., Jr., NorfolkNavShipYd; to NYNavShipYd.

Kravath, Fred F. (CEC), LantDiv BuDocks and Area PWOfc NY; to BuDocks.

Leahy, Harold G., ComDesDiv 242; to Cofs and Aide ComDesFlot Two.

McGillicuddy, Terry T., BuShips; to Staff ComDesLant.

McQuirk, John H., CO and Dir NavRadDef Lab NavB SFRan; to BuShips.

Nichols, Madison (CEC), ROICC BuDocks Contra Pt Mugu; to PWO PhilNavShipYd. Reigart, John M., BuShips; to USNA Annapolis.

Scherer, Donald A., SFRanNavShipYd; to SupShip Ingalls ShipBldg Corp Pascagoula.

Schock, Lewis L., Jr., MareNavShipYd; to SupShip NY ShipBldg Corp Camden.

Schumann, Roland W., Jr., Staff Plans and OpOff ComSixth Flt; to CO USS Rigel.

—Continued on page 15

Cdr. Cheuvront Fills NORAD Sector Post

Cdr. Harlan R. Cheuvront is the new Deputy at Headquarters, Oklahoma City NORAD Sector. He was formerly Commanding Officer of Attack Squadron 76 at NAS Oceana, Va.

Commander Cheuvront has flown over 4,500 hours.

Mrs. Cheuvront is the former Miss Gloria Blate of Jacksonville, Fla. They have three children, Allen 11, Beverly 10 and David, 18 months.

DD Turner Enters Yard For Modernization

The destroyer Turner, commanded by Cdr. C. V. Ditto, has entered the New York Naval Shipyard for a \$3.5 million overhaul under the Navy's Fleet Rehabilitation and Modernization program.

Turner will be the first ship to receive her modernization at the New York Yard. Other Atlantic Fleet Destroyer Force ships are being revamped at the Boston and Norfolk Naval Shipyards.

The Navy will modernize more than 100 ships under the FRAM program.

ARCTIC READY! BELL'S HU-1A

*makes a
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**MISSION BELL
ACCOMPLISHED**

Last February, during its arctic evaluation in Alaska, the Army's turbine-powered Bell HU-1A "Iroquois" was called on for an emergency search and rescue mission. An Air Force bomber was undergoing arctic weather tests near its Alaskan base. Suddenly a crewman accidentally ejected himself at high altitude and parachuted groundward. Minutes after the pilot radioed for rescue, a Bell HU-1A was on the spot, hovering inches above deep snow, taking the crewman aboard. Unusual mission? No, a routine job for the rugged HU-1A... the copter built for instant "alert to airborne" performance anywhere, anytime!

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Skid landing gear... ready for almost any terrain condition.



High capacity cabin heat! -65°F outside; +40°F inside.



Instrument flight capability... for mission accomplishment during low visibility.

52% Of Regular Marine Lawyers Choose Legal Careers; Integrations Sought

SLIGHTLY more than 52% of Marine Corps Regular officer-lawyers have elected to serve full-time in legal billets.

In an interview with THE JOURNAL, Maj. Gen. Donald M. Weller, Marine G-1, revealed that 47 of 90 Regular Leatherneck lawyers have signed their decision to serve continuously in the legal field.

Marine personnel planners formulated the continuing legal billet plan to eliminate the shortage of lawyers that resulted from the rotation of officers between legal and line duties.

General Weller said the Corps has a requirement for 143 lawyers serving full time in legal posts.

The problem faced by the Corps under the old rotation plan, General Weller explained, was that with lawyers serving only one tour of every three in legal slots, "we had a need for three times as many lawyers, were woefully short, and could not meet the requirement."

Applications Sought

In an administrative move, the Corps last June called for applications from lawyers who desired full-time legal careers. Officer-lawyers were given the option of accepting primary legal MOS's 0185 (Trial Defense Counsel Officer) or 0195 (Law Officer), or retaining their Line MOS. Before the program was adopted all lawyers held primary Line MOS's and secondary legal MOS's.

Marine lawyers who have elected to remain in the Line gradually will be phased out of law billets but will be subject to temporary assignment to legal duties in the event of a rapid manpower build-up.

Following receipt of the decisions of Regular officers to serve full-time as lawyers or in Line Billets, Headquarters had a strength picture upon which to base phase two of the plan—the integration program.

Phase two calls for the integration of approximately 60 active and inactive Duty Reserve captains and lieutenants into the Regular Establishment. (Qualifications for integration appeared in THE JOURNAL 13 February).

Two-Fold Purpose

Purpose of setting up the new lawyer plan, General Weller said, is two-fold: first, to provide a better career grade structure for lawyers; and second, to insure assignment of experienced senior lawyers to key billets.

Headquarters has up-graded 26 billets as part of the plan to attract officers to the program, including 10 for colonels, 10 for lieutenant colonels and six for majors.

The new senior grade structure calls for 16 colonels, 29 lieutenant colonels and 35 majors. The old billet ladder provided for six colonels, 19 lieutenant colonels and 29 majors.

General Weller said the up-grading of the senior billets will provide an even

promotion flow compatible with that in the Line. He emphasized that the up-graded billets will not be filled immediately but over a period of years. "We are very concerned with the 'Hump problem," he said, "and are determined not to leave our successors with such a problem. The program is tailored for an orderly promotion pattern. We do not want to have to renege on promises for an orderly promotion flow."

Year Group Plan

The Marine Manpower Chief explained that the integration of Reserv-

ists will be limited by years groups in order to avoid a disproportionate number in one group. If the Corps were not careful to avoid a build-up of officers in a particular year-group, he noted, it would be fostering the very problem it is striving to avoid—a "Hump" group.

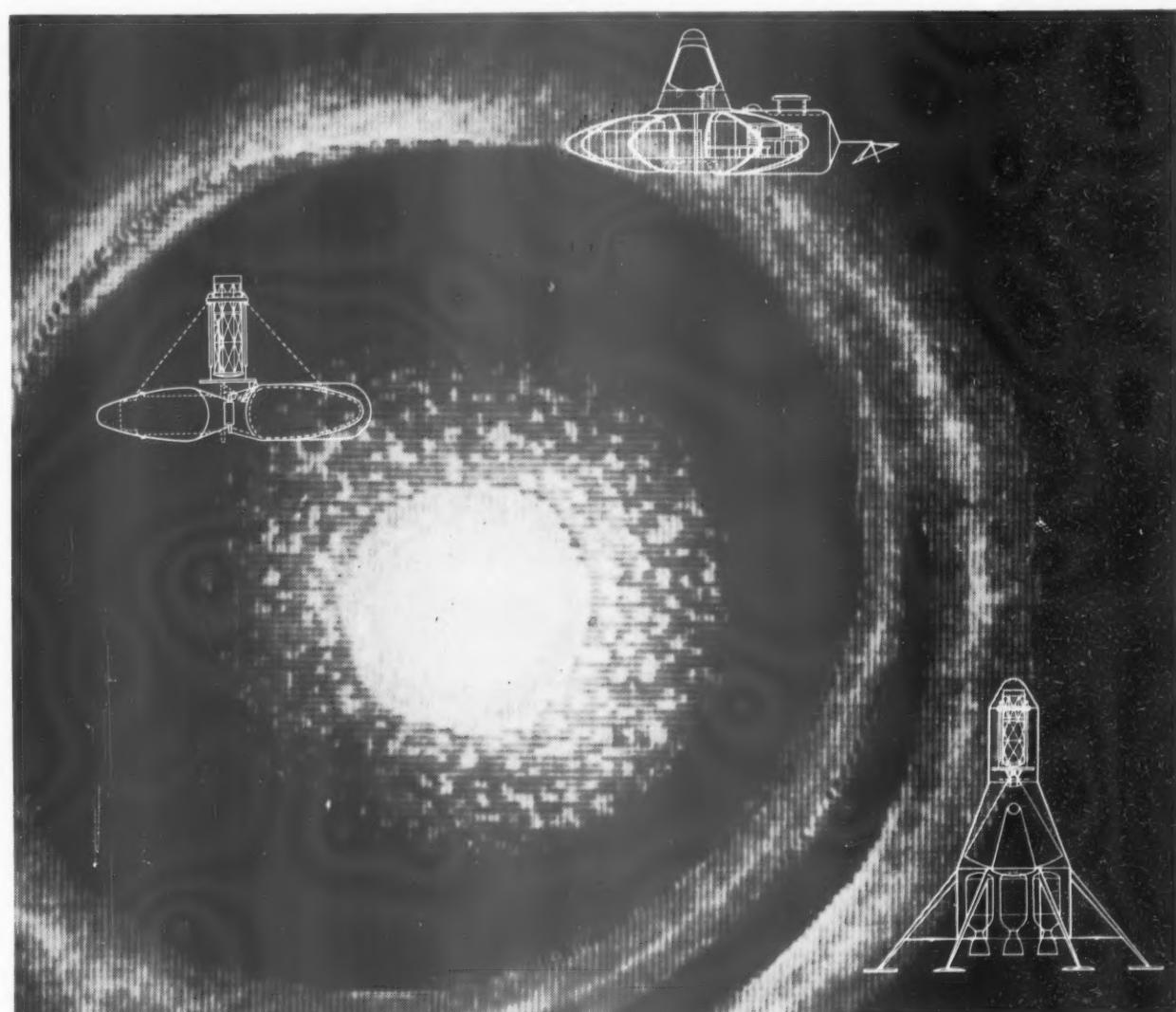
A selection board to choose Reservists for integration will convene in April. Reserve lawyers interested in the program have until 1 April to submit their application to the Commandant of the Marine Corps (Code DPB).

Career legal officers will have the same opportunity to move into general

officer rank as their Line contemporaries, General Weller said.

The following table shows total billet structure of full-time lawyers the Corps hopes to organize over the next several years (TP&P stands for Transient, Patient, and Prisoner):

Grade	Billets	TP&P	Total
Col.	16	1	17
Lt. Col.	29	2	31
Maj.	35	3	38
Capt.	38	3	41
Lt.	15	1	16
TOTAL	133	10	143



New styles for the man-about-space



Every time a space traveler leaves home (earth), he has to wrap himself in the complete environment necessary to his physiological and psychological well-being. Styling sealed space capsules to suit man's every requirement has been a major project at Douglas for more than ten years. Forty basic human factors areas were explored in these studies. Now Douglas engineers have evolved plans for practical space ships, space stations and moon stations in which men can live and work with security thousands of miles from their home planet. The company's wide experience in producing large rocket and pressurized aircraft systems has provided it with unmatched capabilities in the missile and space fields.

Dr. Eugene Konecci, Head, Life Sciences Section, reviews a new concept in space cabin design with Arthur E. Raymond, Senior Engineering Vice President of **DOUGLAS**

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Gen. White Warns Against "Maginot" Danger; Tells Manned Weapon Need

(General Power Tells SAC Requirements, Page 28)

A new argument in favor of the B-70 bomber has been outlined to Congress by General Thomas D. White, who believes that completed U.S. ballistic missile defenses will be comparable to a "large scale" Maginot line.

He has told the Senate Space and Preparedness committees that "a real psychological problem" will arise with completion of the "static system" of ICBM missile defenses.

Presenting "the case for the manned weapon," the Air Force Chief of Staff said an important problem the U.S. has

yet to face is "that a major key weapons system on which much of the security of this country depends will be downgraded over the years simply on the psychological basis of immobility, a static system, such as an intercontinental ballistic missile."

"These crews, day in day out, year in year out, will be sitting there with this array of missiles," he said. "I am not being facetious, I am trying to make my point, that I think that those crews that sit there with a blitz cloth and polish the

—Continued on page 27

SAC SCHEDULES MEMORIAL SUNDAY

General Thomas S. Power, CinC, has designated 20 March as "SAC Memorial Sunday."

On that date crewmen who have lost their lives in aircraft accidents during the years since SAC was activated will be honored at SAC base chapels.

SAC will be 14 years old 21 March. Inaugurated last year, SAC Memorial Sunday falls on the Sunday nearest the command's anniversary.

Col. Shoup Is Cited For NORAD Duty



GENERAL Frederic H. Smith, jr., left Commander of NATO's Fourth Allied Tactical Air Force, presented the Legion of Merit to Col. Harry W. Shoup, Director of Defensive Operations and Chief of the Air Defense Operations Center at 4th ATAF, Ramstein, Germany. The Colonel was cited for his "exceptionally meritorious conduct in the performance of outstanding service" as Director of the Combat Operations Center for the North American Air Defense Command (NORAD) at Colorado Springs from June 1954 to June 1958.

F-106 Slated For 13 USAF Squadrons

Thirteen fighter squadrons in the North American air defense system will be operating the Convair F-106 by next fall.

Six tactical squadrons are equipped with the Delta Dart and seven more will be flying the new jet by September.

Next in line to get the Mach 2-plus F-106 is the 5th Fighter Interceptor Squadron at Minot AFB, N. D., which will receive its first Darts in March. The other six on the schedule—and the months they will receive the new jets—are:

The 94th FIS, Selfridge AFB, Mich., April; 318th FIS, McChord AFB, Wash., May; 438th FIS, Kincheloe AFB, Mich., June; 11th FIS, Duluth Municipal Airport, Minn., July; 329th FIS, George AFB, Calif., August, and the 48th FIS, Langley AFB, Va., September.

Other units programmed to get the all-weather interceptor later have not been announced.

The six squadrons now operating the Delta Dart are: 539th FIS, McGuire AFB, N. J.; 498th FIS, Geiger Field, Wash.; 95th FIS, Andrews AFB, Md.; 456th FIS, Castle AFB, Calif.; 27th FIS, Loring AFB, Me., and the 319th FIS at Bunker Hill AFB, Ind.

Col. England Ops Chief For 9th AF

Maj. Gen. D. W. Hutchison, Commander, has named Col. James J. England as Director of Operations for the Ninth Air Force, Shaw AFB, S. C. He replaces Col. Cleo M. Bishop, assigned to the Office of the Directorate of Operations, USAF Headquarters.

Colonel England had been Director of Inspection, Office of the Inspector General. He came to Shaw from Seymour Johnson AFB, N. C., last November where he held the position of Director of Operations for the 4th Tactical Fighter Wing, and Deputy Base Commander since July 1956.

Colonel England is married to the former Jacqueline Lee of Savannah, Ga.

Col. Barton Directs Atlas Training

Col. Richard Barton, who recently succeeded Col. John J. Easton as Commander of the 576th Strategic Missile Squadron at Vandenburg AFB, Calif., is directing the training of Atlas ICBM crews from Francis E. Warren AFB, Wyo.

The 564th, commanded by Col. Julius Pickoff, is the first unit to undergo Atlas crew training at Vandenburg. This will culminate with a training test-launch in mid-Spring.

READY
ON
THE
LEFT

READY
ON
THE
RIGHT



READY IS THE RAVEN'S MOST FAMOUS TRAIT

And the record proves it. Here are some indications of the reliability of this remarkable light helicopter from the U.S. Army's top flight training operation at Camp Wolters, Texas.

- 1 At this Army-Southern Airways Co. contract operation, the H-23D Raven is the first helicopter ever approved by the Military for 1,000 flight hours between major overhauls...on all major components of its drive system.
- 2 The D ranks highest of all Army rotorcraft in air availability...lowest in maintenance cost.
- 3 Regardless of weather or any other delays, efficient Camp Wolters joint military and civilian management puts its fleet of Ravens through more than 7,000 actual training hours every month.

Designs are one thing. Deliveries another. Both come from

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 Philip B. Taylor—Assistant Secretary (Material)
 Lyle S. Garlock—Assistant Secretary (Financial Management)
 —Assistant Secretary (Research & Development)
 General Thomas D. White—Chief of Staff

LIEUTENANT COLONEL

Hardin, Garland, Wash, DC, to USAFH, Andrews AFB (Pnt).

MAJOR

Fr Wash, DC to Sta Indicated
 Clark, Roy E, dy sta USMA, West Point, N.Y.
 Meyler, Walter P, 111th Ftr Intcp Sq, Tex.
 ANG, Ellington AFB.
 Cumming, Edward P, Andrews AFB (Pnt).

CAPTAIN

Hagaman, Marion D, Norfolk, Va, to Hq Northern AMA, PacAF, APO 323 SF, w/dy sta Bataan Ocean Petroleum Dep & Pandacan Terminal, PI.
 Camuzzi, Claude A, Wash, DC, to Hq 321st Bmb Wg (M), SAC, McCoy AFB, Fla.
 Van Cleef, Harold O, Keesler AFB, to Walker AFB.

MacDill AFB to Sta Indicated

Howell, Jimmie L, 3919th Cmbt Spt Gp, SAC, APO 129, NY.
 Huling, Edward E, Jr, dy sta Tex A&M College, College Sta, Tex.
 King, Nelson V, 4347th Cmbt Crew Tng Wg, SAC, McConnell AFB.

2D LIEUTENANT

Killsguard, Elene V, Keesler AFB, to APO 229, NY.
 Honaker, Harry R, Robins AFB, to 3567th NavTng Sq, ATC, Jas Connally AFB.

CHIEF WARRANT OFFICER

McQuin, W-4 John R, Wash, DC, to Hq AMC Ballistic Msl Cen, AMC, AF Unit PO, LA.
 Louza, Joseph A, Keesler AFB, to APO 929, SF.

RETIRED—

Colonel
 Hornsey, (LtCol) William C, as LtCol & adv to Col.
 Kettick, (LtCol) Donald P, as LtCol & adv to Col.

AF Name Reserves For Gold Leaves

The Air Force has selected 4,372 active and non-active duty Reserve officers for permanent promotion to major.

Reserve lieutenant colonel selections are due to announced within the next month.

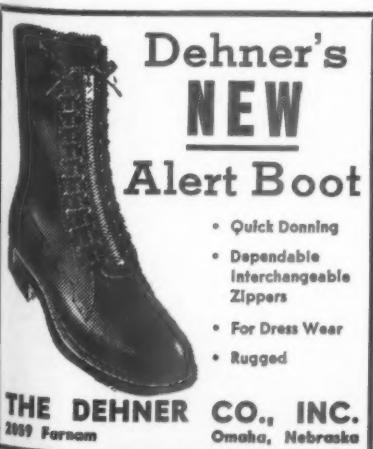
The new majors were chosen out of a total of 5,143 officers considered. Of those not selected, 474 were deferred for the first time, and 297 for the second time.

Active duty officers and Air National Guard officers not on active duty were considered by a board at USAF Headquarters. Others were considered by a board at the Air Reserve Records Center, Denver.

Col. DeVos Heads Center

Col. John F. DeVos, USAF, has been named Chief of the Western Service Center, it is announced by Maj. Gen. Harlan C. Parks, Chief, Army and Air Force Exchange Service.

Colonel DeVos, former Air Materiel Command Deputy Director of Personnel and Support Operations, Wright-Patterson AFB, Ohio, succeeds the late Col. Yancey Knowles in the San Francisco post.



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Haskin, Millard L.
 Kennedy, Thomas J.
 Redburn, (LtCol) Ralph A, as LtCol & adv to Col.
 Stenhouse, William D.
 Holman, Leslie W.
 Hernlund, Richard T.
 Holland, Thomas E.

Lt Colonel

Barnum, Abner J.
 Jacobsen, Walter V.

—Continued on page 19

20 Feb. 1960 (Vol. 97, P. 677)

Army Navy Air Force Journal 9

West German Pilots Get F-104 Training

A six-man team of crack West German Air Force pilots have begun a two-month ground and flight training course in the new Lockheed F-104F "Super" Starfighter at Palmdale, Calif.

They will return to West Germany to train other pilots in flight characteristics of the Mach 2-plus "Super" Starfighters ordered by the Bonn government.

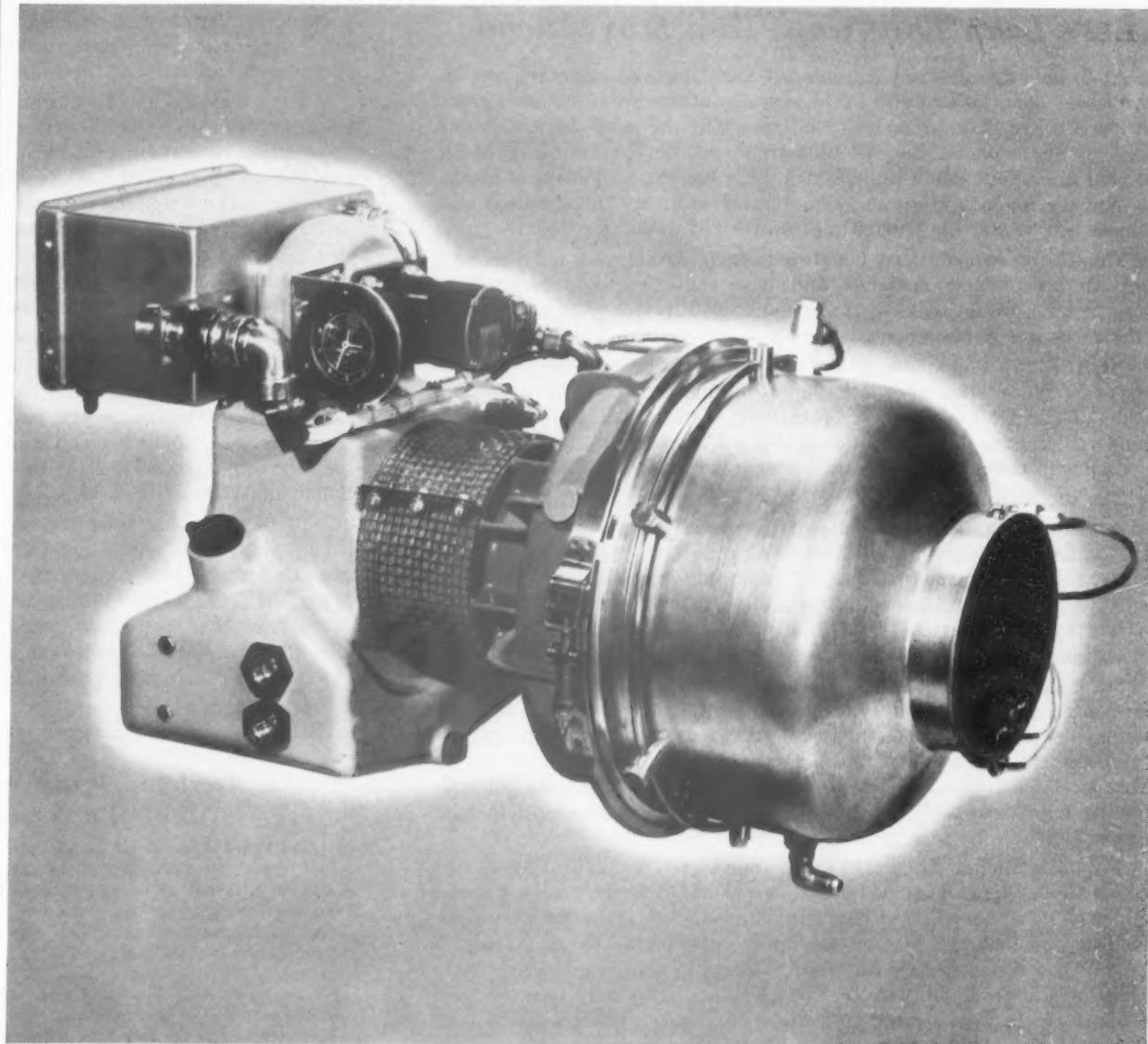
The indoctrination course will be performed with three of the advanced two-seat F-104Fs built for West Germany by Lockheed's California Division.

Col. Guenther Rall of the West German Fighter Squadron Command heads the visiting pilot team. A Starfighter-

qualified pilot, he flew the F-104 during his government's aircraft evaluation mission to this country in 1958.

Titan Terminal Guidance

Space Electronics Corporation reports a subcontract of \$96,000 with Avco Corporation's Research and Advanced Development Division for the study of a terminal guidance system for the Martin Titan ICBM. The work is part of AVCO's \$73 million contract with the Air Force for designing an advanced re-entry vehicle for the Titan. No details on the subcontract were given.



HELICOPTER APU

New Solar gas turbine 80 hp APU is only 12½ in.
 in diameter x 25 in.—weighs 59 lb

SOLAR'S NEW gas turbine-powered helicopter APU occupies only 2 cubic feet—yet provides hydraulic or electrical power for complete checkout, for ground power and to start main propulsion engines. It makes helicopters completely self-sufficient, able to operate from remote locations with no ground support.

Powered by Solar's 80 hp Titan gas

turbine, the lightweight unit is simple in design, easy to maintain, can be started instantly—without warmup—in temperatures from -65°F to 130°F and under wide atmospheric extremes. It operates efficiently on a variety of fuels.

Titan gas turbines are setting new standards of performance and reliability as propulsion units for one-man helicopters, in portable electric gener-

ators and in other applications. For details, write to Dept. G-192, Solar Aircraft Company, San Diego 12, Calif.

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JOURNAL



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Congressional Editor

20 FEBRUARY 1960

Let's Leap The "Gap" And Stay Ahead

At Tullahoma and San Antonio, at San Diego and Sacramento, in crowded Los Angeles and also in the vastness of the great Mojave Desert aerospace test bed, the theme of the story was the same as it was unfolded to newsmen on the Air Research and Development Command National Press Tour. The United States today has the technological know-how and the manpower resources to venture with new imagination and boldness across and far beyond the so-called "missile gap."

The U. S. Armed Forces and Industry, working as a team, are ready to accept new demands and new challenges which, successfully executed, would reaffirm the unequivocal supremacy of our Nation in the aerospace environment.

At ARDC Headquarters, as the trip began, there was the forthright word of top officers that adequate support has not been provided to permit testing of the Nation's newest operational combat aircraft, the F-105 Thunderchief up to the capabilities of the art. They hoped that this might be possible in the next fiscal year.

The theme was to recur often: we can do more, but . . .

At Tullahoma, Tenn., the site of the Arnold Engineering Development Center, certainly the Free World's outstanding wind tunnel research facility, newsmen learned that AEDC construction requests for \$33 million were cut in Washington to \$5.6 million for the current fiscal year. Noteworthy is the fact that AEDC officials have mapped a five-year expansion program which would cost \$60 million annually.

What is the effect of delayed construction? It is this: not until a new vertical rocket test cell is completed will AEDC be able to test engines up to 200,000 pounds thrust at simulated altitudes from 100,000 to 140,000 feet. We are, of course, racing far beyond the 200,000 pound thrust level. But the rules have been laid down that Tullahoma projects must be linked to specific weapons projects, rather than anticipating "upstream" developments.

From Tullahoma, the ARDC Press Tour moved to the new Aerospace Medical Center at Brooks AFB, Tex., a part of the Air Training Command. The fate of a proposed \$12 million expansion, reporters were told, would depend in large part on the efforts of Senator Lyndon Johnson (D-Tex) and Speaker Sam Rayburn (D-Tex). There would seem little doubt that Congress will vote the money, but there surely must be concern that such a vital aerospace facility, whose work holds an important key to our man-in-space efforts, must look to the efforts of partisan legislators, however powerful, rather than to a national sense of urgency for fiscal support.

Beyond the fiscal support for the Aerospace Medical Center, there is certain cause for concern in the comment of Professor of Space Medicine—the only person in the world to hold this title—Hubertus Strughold that "we could do so much more in medical space research if the national effort were better coordinated."

From Tullahoma, the ARDC Press Tour flew to San Diego and a visit to the new Convair Atlas ICBM plant, which cost the company about \$26 million, and the U. S. taxpayer another \$15 million for Air Force tooling. Whatever the controversial tenor of some his remarks, particularly those concerning the rival Titan ICBM, Convair Vice President Thomas G. Lanphier was stating indisputable facts when he pointed out that this priority-built facility was operating at about 50% capacity on a regular five-day week.

Another participant in the first press inspection of the Atlas production plant was General Manager Samuel K. Hoffman of the Rocketdyne Division of North American Aviation, which builds the propulsion system for the Atlas. Quietly and effectively, Mr. Hoffman told reporters, in answer to their questions, that Rocketdyne was prepared to do "much much more" in the rocket thrust field, "if only we are given the word."

The San Diego visit was followed by a similar visit to the new

Aerojet-General liquid and solid propellant rocket facilities on 20,000 acres of abandoned Gold Rush land near Sacramento, Calif. From President Dan A. Kimball, former Secretary of the Navy, through the ranks of scientists and engineers, the word at Aerojet-General was that great leaps forward now are possible, if only the directives are issued from Washington. The anxiety of the Services and Industry to be given such a go-ahead was underscored in the remarks of a former Advanced Research Projects Agency official, now with Aerojet-General, that we must recognize that the Soviet Union could counter our deterrent strength with a space satellite which could detect and destroy. This would be a "spy in the sky with a kill mechanism." We dare not permit a "space gap."

After Sacramento, it was on to Los Angeles for visits to the ARDC Ballistic Missile Division, Space Technology Laboratories, and North American Aviation. At BMD, the briefing accented the fact that, given the decisions that were made two years ago, we are building our missile strength about as fast as practicable, in view of the ground support requirements. But it was significant that a dramatic briefing on military space applications singularly omitted any references to an IOC—initial operational capability. "These are flexible," a BMD official said.

The theme of our shortcomings in comparison to our national capabilities was given pointed emphasis in a briefing presented by STL Vice President and Director of Advanced Systems Planning A. F. Donovan. He said that there must be improvement in the "Technical Decision Process," and pointed out that historically we have under-estimated long-range results of scientific breakthroughs. Mr. Donovan noted, by way of example, how the demands for missile development set forth by the von Neumann Committee in 1954 have been exceeded greatly—10 times in guidance accuracy and 5 times in warhead yields.

"What we have done today could have been much sooner," Mr. Donovan told the ARDC press group.

As the 10-day trip came to a close at the Air Force Flight Test Center in the Mojave Desert, newsmen saw a test stand being built by Rocketdyne to handle an engine of 1.5 million pounds thrust, and nearby another test stand will be capable of firing a propulsion system of 6 million pounds thrust.

In the six years since the von Neumann Committee, we have come a long way, but we have not come far enough. We need now to project our thinking to 1965 and to 1970 and determine that, no matter what is required, the United States will not be confronted with a "military space gap" that could, our best scientists warn us, mean disaster. The way to "Peace With Justice" is military supremacy, and that demands bold vision, timely decisions, and challenging directives for execution.

IN THE JOURNAL

USAF Academy Wins Support; L/G Powell Will Aid Scout Effort; 20-Inch Gun Cast

10 Years Ago—Early establishment of an *ad interim* Air Force Academy, comparable to West Point and Annapolis, is recommended by the Service Academy Board in a report to Secretary of Defense Louis Johnson, made public 16 February. The board recommended that the Army and Navy transfer to the new Academy cadets and midshipmen in such numbers and classes as might be mutually agreeable.

50 Years Ago—Lt. Gen. R. S. Baden-Powell is about to retire from the British Army. It is understood that the General will in the future devote his energies to the furtherance of the Boy Scout movement, which he originated and has already brought to such a promising condition.

96 Years Ago—A twenty-inch Rodman gun, the largest piece of ordnance in the world, was successfully cast on the 11th inst., at the Fort Pitt Works, Pittsburgh. . . . The gun will be reduced in the iron lathe from a rough weight of 170,000 pounds to a finished weight, calculated, of 115,000. The whole length from breech to muzzle will be 243.33 inches; length of bore 210 inches.

READERS' VIEWS

Alice and Flight Pay

■ Re the 6 February article on page 10 entitled "Efficiency in Wonderland," I was singularly touched by the patent pathos of Air Force Alice at his prospective loss of flight pay. To ease his pain, I offer these bits of solace as a "hard-pressed" (i.e., without flight pay) "individual taxpayer" starting with Alice's first paragraph:

Alice refers to the "Air Arms" of his Air Force. How ununified can he get? He should come out from behind the "USAF" because his Alice blue sac is showing!

Alice would use air-truck drivers trained for transocean runs for intercowpasture flights yet? If he can land

the little ones where we want 'em, I'm sure he can get a job with us. Besides, those "pilot trainees" have more experience in the non-flying aspects of ground combat than Alice's fly boys could ever get.

Alice forgets that Naval air continued to act like airplane fliers while Alice was grabbing for missiles to shoot. And Alice answers his question in the next two paragraphs.

Perhaps the best answer to Alice's plea for the artillerymen to don wild yonder blue lies in the fact that we can't see anything different in Air Force "missiles" than we've been happily doing for years: moving a hunk of explosive through the air from one

—Continued on page 22

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Army Wants Tactical Fighter; Polaris Proposal "Dangerous"; AF All-Jet Training

BECAUSE Air Force planes are designed for missions that are performed "at the expense of close air support," General Lyman L. Lemnitzer wants the Army to have its own tactical fighters. During House Military Appropriations Subcommittee hearings, the CofS was asked by Representative Robert L. F. Sikes (D-Fla.): "Are you satisfied that the current and planned tactical air support aircraft can fulfill the Army's requirements? If not, what are the major deficiencies and what do you recommend be done to overcome these deficiencies?"

General Lemnitzer replied: "The tactical reconnaissance aircraft and the tactical fighters which the Air Force uses or plans to use in support of Army forces are expensive and sophisticated aircraft which operate from complex, fixed bases with long runways. The characteristics of the fighter aircraft indicate that they have been designed primarily for air defense, offensive counterair, and interdiction missions, all of which will be performed at the expense of the close support mission. The Army recommends the development of an inexpensive tactical fighter capable of operating off semi-improved fields. This aircraft should be specifically designed for accomplishment of the close support mission. By removing its ordnance and installing camera equipment this same aircraft can be used in the tactical reconnaissance and observation role."

Fight over control of the Navy's Polaris submarines has summoned strong language from Admiral Arleigh A. Burke. The CNO says the proposal to remove Polaris subs from the operating fleets and lump them into an overall strategic command "is both impractical and dangerous." To assign Polaris "to a command charged with operating land-based strategic bombers and missiles," he told Congress, "would weaken our Nation's ability to strike back." Furthermore, the CNO maintains, it would reduce the effectiveness of the missile-firing submarines "by artificially creating many serious operational problems." As a final word of warning on the subject, the CNO suggests "The enemy will create enough problems for us at sea as it is. Let us not deliberately create more of our own."

The Air Force will achieve an all-jet pilot training program during the coming fiscal year. General Thomas D. White has told Congress primary pilot schools will be completely equipped with twin jet T-37 aircraft, with the exception of approximately 15 conventional T-28 aircraft used for certain military assistance program students. Basic pilot training schools are presently all equipped with T-33 jet aircraft and will convert to T-38 twin jet aircraft commencing in fiscal '61. The Air Force budget includes funds to complete the primary school conversion and continue basic school modernization. The Navy has advised Congress that budget limitations will force it to continue using some prop trainers in basic schools.

Thirteen Naval installations—including NAS Oakland (Calif.) will be closed down through fiscal '66. The Navy has told Congress that, in addition to two shutdowns this year, future disestablishments include the Camp Elliott (Calif.) and Camp Langdon (NH) retraining commands, the Reserve flight group at New London (Conn.), the Brown Field (Chula Vista, Calif.) NAAS, NAF Annapolis, and NAS Anacostia (fixed wing flight operations only), during fiscal '61; NAD Hingham (Mass.) and NAS Oakland during fiscal '62; NAD Shumaker (Camden, Ark.), and NOP, Pocatello, Idaho, during fiscal '64, and NAD Hastings (Neb.) during fiscal '66.

Creation of top-level R&D coordination within the Defense Department has been recommended to the House Science and Astronautics Committee by VAdm. John T. Hayward, DCNO (Development). He told the Committee such an organization would eliminate duplication. "It might be a body under the Joint Chiefs of Staff," he suggested.

Members of the Senate Military Appropriations Subcommittee were mystified this week when Air Force Secretary Dudley C. Sharp and Air Force CofS General Thomas D. White testified that they are concerned about the "legislative history" of the section of last year's appropriation law which authorizes the President to go all out in establishing an airborne alert when such a step is deemed necessary. Secretary Sharp and General White noted that no provision is made for personnel increases. Members of the Committee said the language appears to give the President all the authority he needs, not only to increase personnel, if necessary, but to take any action to establish such an alert. The two Air Force officials said they were pleased to receive this "clarification" of the law. Senators continued to express their puzzlement as to why any question had arisen about this in the first place. Later, in testimony released by the Space and Preparedness Committee, there was this enlightening statement by General White, concerning formulation of the current budget: "The Secretary of Defense decided that an airborne alert in some degree was required, would be implemented, and stated that the Air Force would not be permitted to have any additional personnel in order to implement the airborne alert."

How Long To Clear A Speech?

HOW long does it take to clear a speech through the Defense Department?

The answer is 14 "working days" in the case of General Thomas S. Power's address before the Economic Club of New York on 19 January.

Here is the chronological sequence of the clearance procedure:

15 December—Copies of the speech were received at the Pentagon from SAC Headquarters with an accompanying letter from Col. Donald C. Foster, SAC Information Officer, to Brig. Gen. Eugene B. LeBally, AF Deputy Director Office of Information.

The speech was immediately reviewed to determine what AF agencies should review and coordinate on it.

One copy was forwarded to General LeBally, for information.

One copy was forwarded to Brig. Gen. Noel F. Parrish for policy review.

23 December—Copy returned from General Parrish's office, indicating that with certain changes there was no objection from a policy point of view.

24 December—Three copies, with changes, were forwarded to the Office of Security Review, Assistant Secretary of Defense (Public Affairs) for clearance.

The Air Force was later informed copies of the speech were forwarded to the Department of State and the JCS for coordination.

Week of 4 January—Colonel Foster was in the Pentagon. He was informed of Air Force changes in the speech and discussed them with AF personnel who had reviewed speech. He then conferred with the Office of Security Review, OASD, about the speech.

8 January—The Office of Security Review gave Colonel Foster a cleared, but amended, copy of the speech.

13 January—A copy was returned to the Air Force by the OSR. All changes, Air Force, JCS, OSR and State Department were included in this copy.

Twenty-four days elapsed before Colonel Foster received the cleared copy of the speech, and five more days passed before the Air Force received its copy. Because of the intervening Christmas and New Year's holidays, however, the clearance was completed in 14 "working days."

Marine Presentation At Army War College



BRIG. GEN. John C. Miller, Jr. (right), Director of Marine Corps Education Center, Marine Corps Schools, Quantico, Va., presented Advanced Base Problems to the faculty and students of the Army War College last week at Carlisle Barracks, Pa. Others participating in the presentation were Capt. Blake S. Forrest, USN (second from left), Chief Naval Section, and Col. David C. Wolfe (center), Chief Air Section. Col. Charles M. Nees (left), Marine Corps faculty member of the War College and Col. George W. Killen (second from right), student at the War College, are shown with the officers following the presentation.

AF Rules Out Alaskan-Based IRBM's; Sees Interior ICBM's As Better Bet

AIR Force studies show that ICBM's based in the interior of the U. S. will be able to do a "better and cheaper" job of dealing with the Soviet threat than IRBM's based in Alaska.

General Thomas D. White, has told the House Military Appropriations Subcommittee that the reason Alaskan-based IRBM's "are not as effective is due to the increased prelaunch vulnerability, higher total system costs and logistic support problems."

The CofS noted that intermediate range ballistic missiles basically are designed for use against fixed targets of ranges from 300 to 1500 miles from the missile location. "The value of an aircraft to locate targets of opportunity is not questioned," he said, but it appears more logical for an aircraft, once it has penetrated enemy defenses to ranges of 300-1500 miles, "to attack the target of opportunity with armament carried by the aircraft itself rather than act as a spotter for missiles some distance away."

He said the real question is whether IRBM's based in Alaska would provide a net advantage over basing ICBM's in the interior. "The job in either case is to deal effectively with the overall Soviet threat," he said.

Several studies have been made of the problem over the past two years and they "show" that ICBM's based in the interior of the United States can do this job better and cheaper than IRBM's based in Alaska," General White said.

U. S.—Allied Test Pilots At Edwards AFB

USAF TEST PILOT SCHOOL EDWARDS AFB, CALIF.

THE current enrollment at the USAF Experimental Flight Test Pilot School here, under Maj. Richard C. Lathrop, Commander, and Maj. Thomas U. McElmurry, Deputy, includes one pilot each from Germany, Denmark, and Japan.

They are Capt. Heinz Birkenbell, Lt. Olf Eriksen, and Lt. Tatsuyuki Ogura.

One civilian, Frank D. Melton of the Federal Aviation Agency, also is enrolled.

Three 32-week classes of 16 members each begin annually at Edwards. Here are the rosters of the classes now in session:

CLASS 59-C STABILITY

Bell, Capt T I	Koski, Capt R J
Birkenbell, Capt H	Melton, Clv F D
Burden, Capt W L	McDillitt, Capt J A
Cuthill, Capt F J	Nabors, Capt R G
Davey, Capt J J	Royer, Capt H J
Grazier, Capt R C	Westbrook, Capt D E
Heaton, Capt R R	White, Capt E H, 2d
Kavanagh, Capt F M	Williams, Maj G A, Jr

CLASS 60-A PERFORMANCE

Colvin, 1st Lt G L	Ogura, 1st Lt T
Crews, Capt A H, Jr	Phillips, Capt R W, Jr
Cross, Capt C S	Reddoch, Capt J H
Davis, Capt W R	Stout, 1st Lt K E
Eriksen, 1st Lt O	Thornber, Capt H E
Evans, Capt D L	Greuel, Capt R J, Jr
Greuel, Capt R J	Hatzbuehler, Capt E J, Jr
Hatzbuehler, Capt R J	Vanden-Heuvel, Capt R J
MacLeay, 1st Lt L	

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Southwestern Representative: Richard E. Holermann, 9006 Capri Drive, Dallas 18, Tex., Diamond 8-1229.

West Coast Representative: Chris Dunkle & Associates, 740 South Western Ave., Los Angeles 5, DUnkirk 7-6149; and 420 Market Street, San Francisco 11, SUtter 1-8854.

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MEMO--

FAVORABLE CONGRESSIONAL ACTION is anticipated on the Navy's request for legislation to authorize hazardous duty pay for both the Blue and Gold crews assigned to the dual-crew Polaris submarines. The Navy has been having difficulty with hazardous duty pay rules for submariners, both with regard to extended leave from submarine assignments and long periods of shore duty anticipated for the rotating Polaris crews.

The Comptroller General recently gave the Navy authority to grant submariners leave up to 30 days without loss of incentive pay.

THE SERVICES FACE THE LOSS NEXT YEAR of thousands of sets of family quarters. The deadline for occupancy of substandard housing units is July 1961. One example of the problem: at Camp Kilmer, N. J., there are 184 family housing units. All but 2 are substandard.

THE NORTH AMERICAN AIR DEFENSE COMMAND shortly will assign a liaison officer to the Air Force Ballistic Missile Division at Inglewood, Calif. He will work closely with BMD officers on plans for utilization of space satellites in early warning missions.

THE ARMY'S FAILURE IMMEDIATELY to designate a successor for Lt. Gen. Clark L. Ruffner, departing Third Army Commander at Ft. McPherson, Ga., is another case in a long history of delays which have hurt the prestige of Army commands. As The Journal went to press, no replacement had been announced for General Ruffner, who moves to the four-star post as U. S. Representative to the NATO Standing Group at the Pentagon. His appointment was announced last month.

Aside from the Governor of Georgia, it so happens that the Chairmen of both the House and Senate Armed Services Committees are from Georgia and consequently are particularly interested in preserving the prestige of the Third Army, with its headquarters at Atlanta.

CHAPLAIN PASS-OVERS, a touchy point with the Army and Navy, has not reached a problem stage with Air Force personnel officials. They report that the Air Force currently has only 2 first Lieutenants, 1 major and 10-14 lieutenant colonels who have been passed over for promotion to the next higher grade. Each year, the Air Force reports, 5-7 permanent lieutenant colonel chaplains must be mandatorily retired with 28 years constructive service because they cannot be given permanent promotions to full colonel.

NAVY CHAPLAIN CHIEF RADM. GEORGE A ROSSO points out a different story in his Service. "As a result of extremely high rates of forced attrition in recent years," he explains, "119 chaplains (out of a total of just over 800 on active duty) have now failed of selection to the next higher grade one or more times. . . . Included are many extremely able chaplains who have given long years of competent and faithful service." Admiral Rosso says that very few passed-over chaplains "have allowed this disappointment to affect their performance of duty."

Army Chaplain authorities say it is "not in their best interest" to reveal any statistics on chaplain passovers. They say that such statistics "would tend to single out one Corps."

AN ALL-AMERICAN GRIDIRON STAR at Annapolis, Capt. Maurice "Duke" Ferrara, USNA '37, who commands the attack transport Bayfield in the Western Pacific, has been awarded the Philippine Legion of Honor Medal. He was honored for work with Filipino-American guerrillas during WWII while skipper of the submarine Gar.

PRESIDENT EISENHOWER AND ARMY SECRETARY BRUCKER appear to disagree on the military vs. civilian space role. Asking Congress to divorce military and non-military space activities last month (The Journal, 23 January), the President said civilian space exploration "is clearly distinguishable from the military utilization of space for defense purposes." He said a joint program is "unattainable." Secretary Brucker this week told the House Space Committee, "We must never lose sight of the fact that it is most difficult, if not impossible, to separate, in a technical sense, peaceful accomplishments from military capabilities in space."

If Congress should increase the Air Force budget, General Thomas D. White was asked, what priority would he give to those items which have had to be reduced in the current finding? The CofS told the Senate Military Appropriations Subcommittee he would be unable to "make a choice between the airborne alert and the B 70."

THE AF AND NAVY ARE SEEKING missile tracking ships similar to the U. S. Army Ship American Mariner (see page 32). The Navy wants one for its Pacific Missile Range at Point Mugu, Calif. Air Force officials feel they need one so they can do a more thorough monitoring job on their Atlas ICBM tests and on future tests with the solid-fuel Minuteman ICBM. There are also recommendations floating through Army channels that the Army be given a second missile tracking ship.

GIANT NEW RADAR GEAR will be added to the Army's American Mariner to increase her missile tracking range from about 250 miles to about 500 miles. But, this still will not give us the seagoing missile tracking capability that Russia has with the three ships which recently showed up for Soviet missile tests in the Pacific.

Family medical care costs must go up in the next few years, despite cuts in military manpower. The reason is the steady rise in the number of Service family members.

THE NUMBER OF WIVES AND CHILDREN of military men increased 635,465 from 1956 to 1959. In this period, active duty uniformed strength dropped 385,060. As reported on Page 24, Air Force families are growing at the fastest clip.

IT IS OBVIOUS that if this trend continues, as undoubtedly will be the case with the rise in the career retention rate, Congress must either provide more fiscal support for MediCare, or force cutbacks in the program. Seemingly, Service leaders would be well advised to inform Congress this year of what must be anticipated in the future.

THE ARMY SURGEON GENERAL describes as "arbitrary" the reduction in 361 officer spaces that was imposed by the Deputy CofS, Personnel, during the past fiscal year. The Medical Service Corps was hit hardest, with a loss of 250 officers.

IT'S NOW COLONEL John R. "Russ" Blandford, USMCR. The House Armed Services Committee Counsel, widely known as an expert in the field of military manpower, has been named for promotion to full colonel by a Marine Corps selection board. Other Colonel-selectees on Capitol Hill are Senator George A. Smathers (D-Fla) and Representative Donald L. Jackson (R-Calif).

PROMOTION TO USNR CAPTAIN is slated for another Congressional group and a former Pentagon press officer. The new four-stripers include Charles F. Ducander, Executive Director and Chief Counsel of the House Committee on Science and Astronautics; C. Herschel Schooley, former press chief in the Office of the Secretary of Defense, and currently Special Assistant to the Secretary of the Interior and the Department's Director of Information; Representative James G. Fulton (R-Pa) and Representative Craig Hosmer (R-Calif).

VADM. JOHN T. HAYWARD, DCNO (Development) has missed his chance to become a member of the House Committee on Science and Astronautics. During testimony before the Congressional group, Admiral Hayward made such a strong impression on Representative James G. Fulton (R-Pa) that the Congressman suggested Admiral Hayward should be made "an honorary member" of the Committee. Chairman Overton Brooks (D-La) declared, "We already have a captain on the Committee. That's enough brass!" Congressman Fulton had just received word of his promotion to Captain in the Naval Reserve.

A FIFTH NIKE ZEUS test firing will be conducted next month at the White Sands, N. M., Missile Range. The Army is hopeful that this shot, following 4 previous successful Zeus firings, will help win support for its efforts to obtain release of millions of dollars voted by Congress, but withheld by the Department of Defense, for the anti-missile missile project.

THE CASH VALUE OF RESERVE RETIRED PAY is spelled out in an official publication of the Air Force Reserve Center in Hartford, Conn., commanded by Lt. Col. Dwight W. Pratt. According to Lt. Col. Fiorino J. Gigliotti, USAFR, who is associated with an insurance company, a person who entered the Reserve at age 22, and earned 3000 points, and who retired as a lieutenant colonel with 30 years' service, would receive \$155 per month beginning at age 60. To obtain similar benefits from private insurance would require an investment of \$46 a month for 38 years, or \$20,976. Colonel Gigliotti's analysis shows that each point earned on active duty and in the Reserve program means \$9.74 in cash return beginning at age 60.

The Pakistan President's son, Capt. Gohar Ayub Khan, 23, is attending an 18-week associate course at the Infantry Center, Ft. Benning, Ga. In July, he will return to the Fifth Battalion, Punjab Regiment.

THE LABOR DEPARTMENT has told the Services to advise military personnel that they will suffer additional penalties for spending time in the brig or hospital as a result of misconduct. After they leave the Service, their eligibility for unemployment compensation, which is based on quarterly periods, will be reduced to reflect time lost.

THE 1960 NAVAL ACADEMY ALUMNI REGISTER shows that more than one-third of all midshipmen admitted to Annapolis since 1840 failed to win commissions. The Register includes names of 29,018 graduates and 10,661 non-graduates. Of the 37% who did not graduate, 30% failed to maintain academic standards.

THE ARMY HAS SET A 65% minimum participation goal for the 1960 Savings Bond Program person-to-person canvass. It will take place in May at most installations, although authority is being given for conduct of the drive in April or June where field exercises, maneuvers, or similar activities make a May campaign impracticable. The Army says that one canvasser should be appointed for each 25 individuals or less.

Marine Maj. Gen. Marion L. Dawson, Atlantic Fleet Marine Force (Air) CG, will succeed Maj. Gen. Sam Maddux, Jr., USAF, as Senior Member of the United Nations Command Military Armistice Commission in Korea in April.

THE GUN HAS BEEN SILENCED at the Army Air Defense School, Ft. Bliss, Tex. The last class of M-33 anti-aircraft maintenance technicians, composed of 18 National Guardsmen and 4 South Korean soldiers, has been graduated. Henceforth, the Bliss School will concentrate exclusively on missile training. Brig. Gen. S. M. Mellink, Assistant Commandant, noted that 4 years ago, the Army had one battery of Nike missiles to 50 batteries of AA guns. That ratio is now completely reversed.

Army Orders

From page 4

INFANTRY

Colonel

Miller, Lee C, Wash, DC, to USA Elm OS/D Wash, w/sta Paris, France.
Smith, David H, Wash, DC, to France.
Zenour, Frank M, Ft Benning, to USA Elm Hq USEUCOM, Paris, France.
Edwards, Norman B, Ft Benning, to Hq USARPAC, Ft Shafter, Hawaii.
Cole, Lydon B, Carlisle Bks, to Hq Fourth USA, Ft Sam Houston.
Ash, Hughes L, Ft Leavenworth, to USA Standardization Gp, Canada, Ottawa.
Kasper, William M, Paris, France, to USA Gar, Ft Carson.

To Germany

Corbin, Francis J, Ft Belvoir.
Johns, Glover S, jr, Lexington, Va.
Ware, Keith L, Wash, DC.
McKee, Edgar S, Ft Leavenworth.

Lt Colonel

Blaney, Kermit B, Wash, DC, to Okinawa.
Bayard, Robert F, Ft Campbell, to USA Standardization Gp UK, London, England.
Anderson, Richard H, Wash, DC, to Hawaii.
Stakes, Harry C, Ft Benning, to USA ADGRU Tex, Austin, w/sta Brownwood, Tex.
Antonioli, Virginia L, West Point, to USA ADGRU Korea, Yongsan.
Smith, Harry M, Ft Carson, to Germany.
Stansberry, Conrad L, Wash, DC, to Off Stu Co (Stu) USAAVNS, Ft Rucker.
Short, John J, Wash, DC, to USASETAF.

Major

Cleary, Edward R, Wash, DC, to OUSARMA, Am Emb, Ankara, Turkey.
Martin, Stephen G, Ft Leavenworth, to Off Stu Co, Ft Rucker.
Todd, William N, 3d, Sandia Base, NMex, to France.
McFadden, James G, Wash, DC, to Germany.
Hughes, John C, Wash, DC, to Off Stu Co USAAVNS, Ft Rucker.
McCunniff, Thomas G, West Point, to Hawaii.

To Hq USASA Pac, Helemano, Oahu, Hawaii
From Arlington, Va:
Cary, Max E, Sitwell, George F

Captain

Spencer, William H, Jr, Ft Knox, to Off Stu Det Hq & Hq Co USALS, Monterey, Calif.
Dodley, Thomas F, Miami, Fla, to Japan.
Sombar, Michael J, Ft Gordon, to Okinawa.
Hoffman, John J, Jr, Monterey, to France.
Ladd, John C, Jr, Ft Gordon, to Okinawa.

To USA Elm MAAG, Vietnam, Saigon

Bowman, James C, Ft Bragg.
Yunker, Sylvester J, Ft Benning.

1st Lieutenant

Nicholson, William W, Ft Carson, to Hq USA Ryukyu Islands, Okinawa.
Giddings, John H J, Ft Carson, to 1st Bde, Ft Benning.
King, William W, Ft Benning, to 140th Trans Det, Ft Bragg.
Holloway, Robert J, Ft Lewis, to USA ADGRU Korea, Yongsan.

To Off Stu Co, USAAVNS, Ft Rucker

Christensen, Neal R, Ft Ord.
McConkey, Rodney F, Ft Devens.
Robertson, Pierce I, Ft Ord.
Stone, Howard F, Ft Myer.

Major Allison Is A. G.

Maj. Charles H. Allison, Adjutant of the Bremerhaven Port of Embarkation, Germany, is the new Adjutant General, Army Transportation Terminal Command, Atlantic at the Brooklyn Army Terminal.

Major and Mrs. Allison, both residents of Washington, D. C., have one son, Charles, Jr., 3.

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Lavery, James J, Montgomery, Henry L

To Korea

Thompson, Floyd J, Ft Benning.
Eddie, Robert G, Ft Hood.
Hall, David W, Ft Dix.
Morrison, Manley J, Ft Ord.
Scott, Richard L, Ft Benning.
Bronson, Russell A, Ft Hood.
Sharp, Leonard J, Ft Hood.

To Germany

Noyer, Gary R, Ft Lewis.
Bonta, Stanley G, Ft Campbell.
Wilkinson, John C, Ft Bragg.
Hall, John M, Ft Knox.
Luther, Ralph A, Ft Bragg.
Dagle, Robert A, Ft Campbell.
Williams, Leonard R, Ft Benning.
Wishart, Leonard P, Ft Bragg.

Sargent, Norbert J, Ft Carson.
Berlin, Richard G, Ft Benning.
Streett, Allan H, Ft Benning.

2d Lieutenant

Meyer, Ronald L, Ft Jackson, to 101st Abn Div, Ft Campbell.
Works, Leroy, Jr, Ft Dix, to Korea.

To Off Stu Co, USAAVNS, Ft Rucker

Kneiss, Richard F, Ft Benning.
Lynn, Ira I, Ft Jackson.
Eberhardt, Glynn E, Ft Gordon.
Greicer, Conrad J, Ft Bliss.
Menefee, Maurice F, Jr, Ft Jackson.

ARMOR

Colonel

Davis, Kelton S, Monterey, to USA Elm MAAG Italy, Rome.

—Continued on next page

Army Navy Air Force Journal

20 Feb. 1960 (Vol. 97, P. 681)

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Col. Howe Heads Recruiting

Col. Charles P. Howe, former Chief of the National Guard Division, Reserve Forces Section, Fourth Army, Ft. Sam Houston, Tex., has been assigned to command the five-state Fourth Army Recruiting District.

He is responsible for recruiting activities in Arkansas, Louisiana, New Mexico, Oklahoma and Texas.

Colonel Howe, assigned to Fourth Army last June, had served as Chief of the MAAG in Ethiopia.

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Accidents can happen anytime, anywhere. Your golf ball strikes the caddy... your bullet hits another hunter... your children break a neighbor's picture window... your wife scalds a guest with hot coffee... your dog bites the mailman... the milkman breaks a leg on your back porch. These accidents, and many more, can result in costly judgments that may run into the thousands. Now for the first time, USAA, serving the Armed Forces officer with low cost automobile insurance since 1922, makes available

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Military Address _____ Active duty Retired

Inactive duty but retaining commission



Army Orders

From preceding page—

Lt Colonel

Spahr, William J., Ft Knox, to USARMA Trans Det, Wash, DC.

Major

Lawrence, Milton M., Ft Hood, to Hq USCONARC, Ft Monroe, w/sta USA Ord Arsenal Detroit, Center Line, Mich.

Captain

Ratcliff, Walter A., Ft Hood, to Stu Det US-ATSC, Ft Eustis.

Boland, Herman T., Jr., West Point, to Korea. Dolce, Dominic A., Ft Benning, to Germany.

1st Lieutenant

Trabert, Richard F., Ft Meade, to USA Ord Arsenal, Picatinny, Dover, NJ (trf fr Armor to OrdC).

Lackey, Marvin E., Ft Hood, to Stu Det QM Sch USA, Ft Lee.

To Korea

Brinton, John R., Ft Knox, to Korea.

Fleming, Hewell D., Ft Rucker.

Gray, Josef E., Ft Lewis.

Piasta, Richard L., Ft Carson.

Fluker, Thomas D., Ft Hood.

Laabs, Robert G., Ft Riley.

Britton, James H., Ft Hood.

Calvert, George H., Ft Knox.

Cullins, Robert B., 3d, Ft Riley.

Emrick, Charles W., Ft Knox.

Gaspard, Claudis P., Jr., Ft Benning.

Hughes, Jimmie T., Ft Hood.

London, William G., Ft Hood.

2d Lieutenant

Elwell, John E., Ft Meade, to Germany.

ARTILLERY—

Colonel

Shive, Donald W., Norfolk, Va., to Stu Det USAWC, Carlisle Bks, Pa.

Sacerdote, Sydney E., Ft Sill, to USALS, Ft Benning.

Hasselback, Frederick W., Albuquerque, New Mex, to Germany.

ZAMA A.G.

Lt. Col. Ray P. Kundert has been appointed Adjutant General for Headquarters, U. S. Army Japan/6th Logistical Command, at Camp Zama, Japan, 35 miles southwest of Tokyo.

Before coming to Japan, he was Deputy A.G., Eighth Army in Korea.

Lt Colonel

England, Charles F., Ft Monroe, to USA Elm MAAG, Taiwan, Taipei.

McWherter, Joseph D., Jr., Wash, DC, to UAA Arty & Msl Cen, Ft Sill.

Benson, Richard T., Wash, DC, to USA ADGRU Korea, Yongsan.

Podworny, Edward C., Wash, DC, to USARAL.

Brown, Lloyd C., Ft Wadsworth, to USA Spt Gp for Korea Depn Housing, Yongsan.

McClure, Charles C., Akron, O, to Germany.

Major

Jeffs, Dean R., Vermillion, SDak, to USARCARIB (Panama).

Snyder, John J., Ft Holabird, to OACSI USA, Wash, DC.

Norman, Henry A., Baltimore, to USA Elect Pr Gr, Ft Huachuca.

Hunt, Ralph T., Wash, DC, to USA Fid Det M OACSI, Wash, w/sta London, England.

Bailey, Lawrence R., Jr., Ft Meade, to USARMA Trans Det OACSI, Wash, DC.

Cunningham, John L. (AI), Ft Holabird, to Germany.

Ulanowicz, Emil M., Ft Bliss, to USA Elm MAAG, Taiwan, Taipei.

To USA Elm MAAG, Vietnam, Saigon

Constant, Thomas M., Ft Riley.

Lloyd, James H., Ft Wadsworth.

Southern, Frederick W., Ft Carson.

Spence, Don C., Jr., Cleveland, O.

Captain

McCarthy, John F., Ft Sill, to USAH, Ft Benning.

Cravens, James J., Ft Benning, to USA ADGRU Korea, Yongsan.

Rodawalt, Lee R., Redstone Arsenal, Ala, to Hq Second USA, Ft Meade.

Shea, John J., Jr., Wash, DC, to Hq 1st How Bn, 76th Arty, Ft Devens.

Armfield, William F., Cp Wolters, to Hq Third USA, Ft McPherson.

England, Marlon F., Jr., Ft Riley, to USA AVNS, Ft Rucker.

Metcalif, Glenn W., Jr., Ft Bliss, to 77th Sp Forces, Ft Bragg.

To Korea

Turk, Fred, Arlington, Va.

Stokan, Donald A., Ft Belvoir.

1st Lieutenant

Ham, John K., Ft Bragg, to USARAL.

Thomas, Donald R., Ft Bliss, to Hq USARCARIB, Ft Amador, CZ.

M/G Van Natta Fills New Deputy Billet In USAREUR, Other Changes At Heidelberg

Maj. Gen. Thomas F. Van Natta has been named to the new U. S. Army Europe position of Deputy CofS, Operations and Intelligence at Heidelberg, Germany. General Van Natta, previously the USAREUR G-2, is succeeded in that position by the Deputy G-2, Col. Allen D. Hulse.

Other new changes at USAREUR:

Deputy CofS, Administration and Logistics, redesignated Deputy CofS, Administration, with the former USAREUR G-1, (Personnel), Maj. Gen. Philip

F. Lindeman, named to the position. Col. Walker R. Goodrich is the new G-1.

Deputy CofS, Advanced Weapons and Guided Missiles redesignated Deputy CofS, Advanced Weapons and Air Defense, involving only a change in title for Maj. Gen. Eugene F. Cardwell.

Assistant CofS, G-4 (Logistics) redesignated Deputy CofS, Logistics, involving a change of title for Brig. Gen. Andrew J. Adams. General Adams' former office will be known as the Logistics Division.

Lt Colonel

Alexander, Charles H., Monterey, to USA Elm MAAG, Spain, Madrid.

Vorlander, Carl C., Wash, DC, to USA Elm JUSMMAT, Ankara, Turkey.

Moore, Felton H., Wash, DC, to Germany.

Major

Taylor, Thomas H., Pasadena, Calif, to USA Elm MAAG, Taiwan, Taipei.

Buckner, William B., Jr., Ft Gordon, to USA Sig Air Def Engr Agcy, Ft Meade, w/sta Southpark Mil Res, Pittsburgh, Pa.

Pierce, Gardner T., Ft Campbell, to USCONARC, Ft Monroe.

Chance, Donald W., Ft Lee, to Germany.

Thomas, James T., Aberdeen Pr Gr, to 7th Sig Bn, Paris, France.

Cook, Bruce K., Newark, NJ, to OC Sig O USA, Wash, DC.

Captain

Roll, Charles V., Ft Slocum, NY, to USA Picton Cen, Long Island City.

Best, Kenneth R., Ft Bragg, to USA Elm Hq Allied Forces Southern Europe, Naples.

Finch, Benjamin C., Ft Sill, to Okinawa.

Harmon, Thomas D., Ft Hood, to USA ADGRU Korea, Yongsan.

Minkel, Edward J., Wash, DC, to USA Elm MAAG, Libya, Tripoli.

Lowe, Carlton M., Ft Bragg, to USA ADGRU Korea, Yongsan.

Murphy, William E., Newark, NJ, to Hq Third USA, Ft McPherson.

Sutton, Jimmy C., Newark, NJ, to OC Sig O USA, Wash, DC.

Sullivan, John L., Philadelphia, to Sacramento Sig Dep, Sacramento, Calif.

To Hawaii

Philips, Wilber H., Ft Hood.

Pounders, Porter C., Ft Benning.

Johnson, Ralph E., Ft Carson.

To Germany

Funderburg, James D., Ft Gordon.

Sharpe, Edgar B., Ft Monmouth.

Penney, Jean M., Ft Hood.

Nolker, William F., Ft Ord.

1st Lieutenant

Laconis, Emil P., Ft Belvoir, to USA Sig Gar, Ft Monmouth.

Newland, Robert C. (AS), Monterey, Calif, to USA Elm NSA, Ft Meade.

McEvoy, Leo D., Ft Monmouth, to Korea.

Paradiso, Richard A., Ft Devens, to 9th US ASA Fld Sta, Clark AFB, Manila, PI.

To USAAVNS, Ft Rucker

Coggins, Peter R., Ft Meade.

Gill, Norman R., Ft Sheridan.

2d Lieutenant

Albert, John G., Ft Hood, to Hq USA Ord Msl Comd, Redstone Arsenal, Ala.

ADJUTANT GENERAL'S CORPS—

Maj Gen Robert V Lee, TAG

Colonel

Corey, Harold L., Wash, DC, to France.

Lt Colonel

Dallam, Robert N., Wash, DC, to USA Elm Hq Caribbean Comd, Quarry Heights, Cz.

Snyder, Neil N., Jr., Ft Benning, to USA Elm Hq Alaskan Comd, Elmendorf AFB, Alaska.

Zeller, George W., Ft Holabird, to Okinawa.

Tansley, Maynard S., Ft Meade, to USARCARIB (Antilles).

To Korea

Cole, Earl F., Ft Benning.

Geer, Donald L., Arlington, Va.

Major

Baranowski, Raymond C., Cp Drum, to USARCARIB (Panama).

To USA Elm MAAG, Taiwan, Taipei

Adamson, Orastus E., Huntsville, Ala.

White, Burl V., Albuquerque, NMex.

Captain

Rauscher, John E., Columbus, O, to USA Elm MAAG Taiwan, Taipei.

Griffith, James C., Ft Benjamin Harrison, to USA Elm Hq MAAG, Pakistan, Rawalpindi, w/sta Karachi.

Crowley, Melvin F., Ft Carson, to Korea.

1st Lieutenant

Roberts, Ambrose, Jr., New Haven, Conn, to Okinawa.

Young, Laurence J., Ft Dix, to France.

2d Lieutenant

Barnes, Robert B., Jr., Ft Hood, to Hq XIX USA Corps, Ft Chaffee.

JUDGE ADVOCATE GENERAL'S CORPS—

Maj Gen George W Hickman, Jr., TJAG

Colonel

Lough, Frederick C., Albuquerque, NMex, to USMA, West Point.

Lt Colonel

Wilkinson, Charles W., Seoul, Korea, to dy sta, Ft Lewis.

Rouse, Joseph H., Wash, DC, to USA Elm MAAG, Taiwan, Taipei.

Hodges, Willard C., Jr., Wash, DC, to USA Elm OSD Wash, w/sta Paris, France.

Manes, Donald L., Jr., Charlottesville, Va, to OTJAG USA, Wash, DC.

Major

Newman, Vernon H., Ft Bliss, to USMA, West Point.

Wofford, Ralph W., Charlottesville, Va, to OTJAG USA, Wash, DC.

Wolf, Jean A., San Francisco, to France.

To Germany

From Charlottesville, Va:

Bell, Eugene J., Jr., Seibert, Richard F

Captain

Hollander, Bennett N., Wash, DC, to USMA, West Point.

Moore, Fred J., Charlottesville, Va, to Germany.

Clause, James D., Charlottesville, Va, to Korea.

From Charlottesville, Va, to Station

Indicated

Zeigler, William A., OTJAG USA, Wash, DC

Hall, Rupert P., USA Gar Killeen Base Fld

Comd, Killeen Base, Tex.

Hammack, Ralph B., Hq Sixth USA, Presidio of SF.

Watson, Henry, Jr., USA Elm Fld Comd Def

Atomic Sup Agcy, Sandia Base, NMex.

Hagan, James A., Hawaii.

QUARTERMASTER CORPS—

Maj Gen Andrew T McNamara, QMG

Colonel

Kenderline, John M., Ft McPherson, to USA Elm USEUCOM, Paris.

McKee, John T., Ft Worth, to USA Proc Cen, Frankfurt, Germany.

Retzky, Clarence, Wash, DC, to Cameron Sta

QM Actv USA, Alexandria, Va.

Lt Colonel

Campbell, Kermit W., Alameda, Calif, to Okinawa.

Farmer, Herman M., Ft Lee, to France.

Bennett, James G., Ft Lee, to USA Standardization Gp, Canada, Ottawa.

King, John J., Jr., Ft Monroe, to USA Elm

Prov MAAG Korea, Yongsan.

Yarrington, William R., Philadelphia, to Germany.

Jeffries, Charles E., Ft Hamilton, to QM Tng

Comd, Ft Lee.

Major

Foery, Frank R., Richmond, to Japan.

Captain

Cauthen, Wilbur L., Ft Ritchie, to Korea.

Atkinson, Jack, Ft Lee, to Germany.

1st Lieutenant

Lewis, Richard R., Ft Lee, to Stu Det USA AVNS, Ft Rucker.

FINANCE CORPS—

Maj Gen Paul A Mayo, C of F

Colonel

Parker, John M., Ft Benjamin Harrison, to OTQMG USA, Wash, DC.

Lane, Danna L., Governors Is, NY, to USARCARIB (Panama).

Captain</

Navy Orders

From page 6—

Spelman, Clemens E (CEC), XO NavCBCEC PorHue; to BuDocks.
 Sweeny, John, NavWarCol Newport Duins; to The JStaff Ofc JCS WashDC.
 Thomas, Newell E, The JStaff Ofc JCS WashDC; to CO USS Truckee.
 Underwood, Gordon W, BuShips; to SupIns Mat WestDist SFran.
 Wallace, Russell H, Staff ComNavAirPac; to SFranNavShipYd.
 Washington, Thomas, Jr, Staff ComNavAir Pac; to BuWeps.
 Zanzot, Raymond J, SupShip NY ShipBldg Corp Camden; to BuShips.

COMMANDER

Clark, Gilbert L, CO USS THEODORE E CHANDLER; to FLEOPCONCENPAC.
 Homer, William N P, AIRWARCOL MAXWELL AFB DUINS; to CO USS BEATTY.
 Kitt, Robert B, NAVWARCOL NPT; to CO USS BLUE.
 Lee, Clyde J, CO ATKRON 112; to ATKRON 126.
 Mason, James M, NAVWARCOL NPT DU INS; to CO USS PICKLING.
 Riley, George B, STAFF SACEUR; to THE JSTAFF OFC JCS WASHDC.
 Willyard, Harold A, HEAVY PHOTORON 62; to PATRON 23.
 Herald, Carl A (CHC), USS SHANGRI LA; to NAVSTA SDIEGO.
 Johnson, Silas R, OPNAV; to CO HATRON NINE.
 Lange, Robert V, DESLANT; to COMDES DIV 242.
 McCord, Walter D, Jr, CO USS CHEVALIER; to JSTAFF CINCPAC.
 Meshier, Charles W, HATRON SIX; to CO SAME RON.
 Oakley, Francis M, MAREGRU; to CO NAV ADV UNDER SEA WPNSCOL NAVB KWEST.
 Perley, Reuben N, Jr, NOL WHITE OAK; to NAD OAHU.
 Pierre, Emile E, Jr, USS FRANKLIN D ROOSEVELT; to PATRON TWO.
 Rifeburgh, Edward G, OPNAV; to ALUSNA PARIS.
 Seelos, Robert G (SC), USS FRONTIER; to SERVRON ONE.
 Smith, Leroy P, CARDIV 17; to USS INTREPID.
 Smith, Robert G, CO USS WILLIS A LEE; to DESLANT.
 Terry, John H, OFC OF THE ASST FOR AIRCRAFT REACTORS DIV OF REACTOR DEV AEC GERMANTOWN; to DASA WASHDC.
 Bailey, Bernard J, BUSHIPS; to NORFOLK NAVSHIPYD.
 Beck, Robert E, Jr, SECONDFLT; to STAFF SACEUR.
 Beck, Tom W, (CEC), MCAF IWAKUNI; to DPWO 8ND.
 Birch, Thomas L, AEWRON THREE; to RADLDEFLAB NAVB SFRAN.
 Brown, Joy E, BUSHIPS; to FLDCOM DASA SANDIA ALBQ.

Navy Orders New Copter Altimeter

The Navy has awarded a \$600,000 contract for production of low-altitude radar altimeters for helicopter use to the Buffalo, N. Y. Operations of Sylvania Electric Products Inc. Sylvania is a subsidiary of General Telephone & Electronics Corporation.

The altimeter, the APN-117, the first military low-altitude unit designed for use in helicopters, was developed by Sylvania in conjunction with the Bureau of Naval Weapons, which made the contract award. An earlier production contract for \$235,000 was awarded in September 1958.

The APN-117 was designed with special capabilities for hovering to facilitate its use during anti-submarine activity, reconnaissance and rescue operations.

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SEAPLANE SIMULATOR

A \$1.1-million contract for conversion of an electronic flight and tactics simulator has been awarded to the ACF Electronics Division of ACF Industries, Inc. by the Naval Training Device Center, Port Washington, New York. The contract calls for conversion of the P5M-1 Martin Marlin simulator into one for the newest version of the aircraft, the P5M-2.

Curry, Matthew A (CHC), USS NORTHAMPTON; to NAVADMINCOM NTC SDIEGO.

Desel, Robert F P, BSNAVSHIPYD; to NAVSHIPYD.

Doherty, James F, Jr, NAS PNCLA; to UTRON THREE.

Franz, Leonard A, NEL SDIEGO; to PEARL NAVSHIPYD.

Froman, Allison D (CEC), LBEACHNAV SHIPYD; to MCAF IWAKUNI.

Gerry, Duane J, NAVSTA KWEST; to PHIBLANT.

Heintz, John W, USNA ANNA; to PORTSMOUTHNAVSHIPYD.

Hoffberg, Howard J, NRL WASHDC; to CHASNAVSHIPYD.

Lovell, Frederick A, Jr, CARDIV FOUR; to NAVSEC MAAG NORWAY OSLO.

Murray, James G, NAVINSURV NAVSTA WASHDC; to BUSHIPS.

Myers, Daniel W, NAS WILLOW GROVE; to CO NAVRESTRACEN LANTCITY.

Pariseau, Joseph A, USS RANGER; to FAIRALAMEDA.

Rowe, John R, NORFOLKNAVSHIPYD; to FLAGRU.

Selden, Clifford H, Jr, NAVPHIBCOL CORONADO SDIEGO; to NOTS CHINA LAKE.

Tervo, Arne J, BUSHIPS; to NAVINSURV NAVSTA WASHDC.

Willis, Irving E, NAVSECGRUACTY BREMERHAVEN; to CO SAME GRU.

Albrecht, Herbert C W (CHC), NAS AGANA GUAM; to NAVHOSP OAK.

Allan, Robert A, NAS NY FLOYD BENNETT FLD BKLYN; to CO NAVMAR CORESTRACEN FT SCHUYLER.

Cocke, Thomas P (CEC), CO NAVPHIBC ONE; to NAVWPNSPLANT WASHDC.

Connolly, Bartholomew J, 3d, OPNAV; to USS LEXINGTON.

Crow, Murphy, NARTU NAS NORVA; to NARTU NAS MFS.

Dillon, John G (CEC), NAVWARCOL NPT DUINS; to DPWO 12ND.

Healey, Thomas L, NABATRACOM NAS PNCLA; to PATRON NINE.

Kitchen, Etta Belle, 11ND; to NTC BAIN.

Manship, Herbert K, SECONDBOMW G HUNTER AFB; to HATRON SEVEN.

Moore, Thomas H, HATRON FOUR; to CO SAME RON.

Nuckel, John, Jr (CEC), LANTDIV BU DOCKS AND AREAPWOC NYK; to CO PHIBCB ONE.

Reilly, Louis J (SC), AFSC NORVA DUINS; to USS PROTEUS.

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FREE BOOKLET

20 Feb. 1960 (Vol. 97, P. 683)

Army Navy Air Force Journal 15

Navy Purchase Unit Tells New Awards

Capt. W. P. Watts, SC USN, Officer in Charge of the Navy's New York Purchasing Office, has announced a number of new contracts.

In connection with the LPD (Amphibious Transport Dock) Shipbuilding Program at the New York Naval Shipyard, an award totaling \$1,331,130 went to the General Electric Company for the manufacture of turbine driven ship's service generators. Additional awards went to Babcock and Wilcox Company for main boilers (\$583,060); the ITE Circuit Breaker Company for circuit breakers (\$108,170); and Hardie Tynes Manufacturing Company for turbine driven forced draft blowers (\$247,640).

The distilling plant equipments went to Cleaver Brooks Special Products Incorporated for \$211,750; propeller tubes

and line shafting went to Isaacson Iron Works for \$70,160.

In addition to the area responsibility for the Third Naval District, NPO NY performs centralized commodity buying under a Single Department Purchase Assignment including ecclesiastical equipment and supplies; fibers, fiber rope, cordage and twine; and pest control items. On an intra-Navy assignment, NPO purchases wiping rags for activities throughout the Navy.

In the past three months, NPO has awarded 21 insecticide contracts totaling \$601,411; 25 rope and cordage contracts totaling \$154,848; and 12 ecclesiastical material contracts totaling \$59,657. On the intra-Navy assignment, 23 wiping rag contracts have been awarded totaling \$354,535.

Barrington, Reginald L, NAVPHIBBASE CORONADO TEM; to NOTS CHINA LAKE.
 Calcagne, Raymond P, AIRDEVRON SIX; to NARTU NAS MFS.
 Caldwell, Helen W (MSC), NAVHOSP NAVB NPT; to NAVHOSP PORTSMOUTH VA.
 Chalmers, Katherine D, NAVSCOLCOM TI SFRAN; to BUPERS.
 Cole, Roy H, NAS LOS ALAMITOS LBEACH; to NARESTRACOM NAS GLEN.
 Cooke, Robert S, NAVAIRLANT; to ATK RON 43.
 Cwynar, John S, SERVSCOLCOM NTC GLAKES; to NAVORDFAC NAVACTY PORT LYAUTEX KENITRA.
 Ducey, Anne L, AFSC NORVA; to BUPERS.
 Eaton, Ralph H, NAS NROLNS; to NAS OLATHE.
 Evans, Helen L (MSC), NAVHOSP PORTSMOUTH VA; to NAVHOSP ST ALBANS LONG IS.

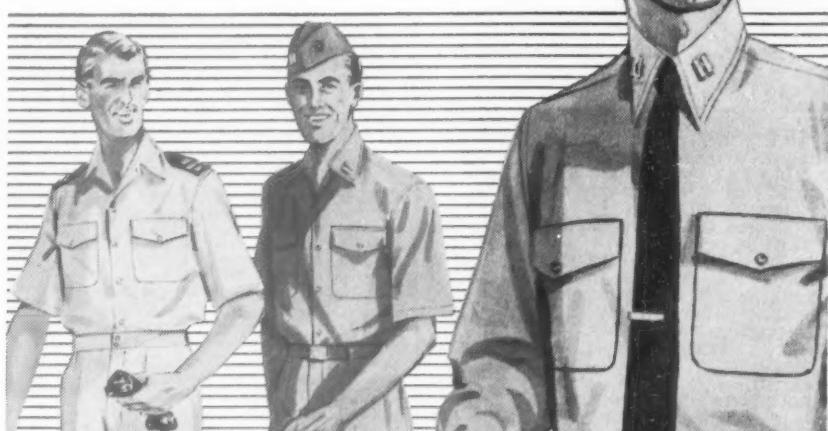
—Continued on next page

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Navy Orders

From preceding page—

Hawkins, Benjamin A. Jr. NAD CRANE; to FLDCOM DASA SANIAB ALBQ. Hoagland, Warren L. HELANTISUBRON NINE; to NARTU NAS JAX. JENNETH, Gaston P. Jr. OIC NAVRESTRA FAC ITHACA; to ICEDEFOR. Joslin, Harold E. NAVSECGRUACTY FORT GEORGE B MEADE; to NAVSECGRUHQ ACTY WASHDC. Kauffman, Steven K. (CEC), BUDOCKS; to AREAPWOC ELM LONDON. Larkin, George M. Jr. CO USS DASH; to NUCLEARWPNTREACENLANT NAS NOR VA. Nelson, Clifford. USNAVPGSCOL MONTEREY DUINS; to HATRON THREE. Pline, Joseph E. FAETULANT; to NAVCIC SCOL NAS GLYNCO. Richardson, John P. NAVSTA ARGENTIA; to NAVANTRACOM NAS CORPC TEM. Smith, Leo A. NAS MPLS; to NAS OLATHE. Tassi, Derna L. (NC), NAVHOSP GLAKES; to NAVSTA BERMUDA. Taylor, Leroy M. Jr. AIRTRANSRON SEVEN; to FASRON 102 PROJ MAGNET. Bettis, Alfred M. NEL SDIEGO; to SFRAN NAVSHIPYD. Brooks, Wharton H. USS AJAX; to BU PERS. Callahan, James T. (CHC), NAS GTMO; to SECOND MARDIV FMF. Cockrell, Jack R. NAVSEC MAAG ITALY ROME; to NAVSCOLCOM NAVB NPT. Costanzo, Carl J. USS WEDDERBURN; to CO USS CONQUEST. Froggett, Adonis J. USS OAK HILL; to CO NAVMARCOSTRACEN BILLINGS. Harrison, William M. OFC OF INDMAN 9ND; to BUSHIPS. Jackson, Laurence L. Jr. PEARLNAVSHIP YD; to DAVID W TAYLOR MODEL BASIN CARDEROCK. Jones, Joe L. (SC), USS GEORGE CLYMER; to DAVID W TAYLOR MODEL BASIN CARDEROCK. Lake, Julian S. Jr. NAVWARCOL NPT DU INS; to ATKRON 43. Leavitt, Eben, Jr. NAVWARCOL NPT DU INS; to CO ATKRON 52. Little, James S. (CHC), NAS MFS; to USS MOUNT MCKINLEY. Lukasik, Albert E. USS ESSEX; to FLE TRACEN NORVA. McCallum, Elmer A. ATKRON 126 DET ONE; to FLDCOM DASA SANIAB ALBQ. McFadden, Gordon E. USS VOGELGESANG; to CO USS EXULTANT. Miller, Wallace E. NAS OLATHE; to NAS SO WEYMOUTH. Murray, Hoseia J. CHASNGRU; to OFC OF INSMAT STL. Nishtick, Helen (NC), NAVHOSP CHASN; to NAVSTA ROTA. Opitz, Albert C. ONR NAVDEPT; to SFRAN NAVSHIPYD. Owen, Marler W. USS GRAND CANYON; to OFC OF INSMAT DAL. Paulson, George I. (CHC), FIRST MARDIV (REINF) FMF; to SECOND MARDIV FMF. Rose, Albert E. Jr. OFC OF SUPSHIP GEN DYNAMICORP ELEBOATDIV GROTON; to CHASNAVSHIPYD. Salmons, Luther C. FLETACSUPPRON 21; to NARTU NAS MFS. Beattie, Robert E. AIRTRANSRON SEVEN; to MATS SCOTT AFB. Boger, Clarence E. CLARKSVILLEB; to DESRON FOUR TEM. Comer, Paul R. USS TARAWA; to USS GRAND CANYON. Creider, Anthony S. FASRON 12; to NAS MIRAMAR. Davis, Jean E. (NC), NOTS CHINA LAKE; to NAVHOSP PHILA. Duck, John C. USS YORKTOWN; to ATK- RON 55. Hayler, William B. NAVWARCOL NPT DUINS; to CO USS AMMEN. Keen, Elmer D. HELTRAGRU ELLYSON FLD; to HUTRON TWO. Lapointe, Arthur. NARTU NAS JAX; to CO NAVRESTRACEN STATE PIER NEW BEDFORD. Lee, Ulysses O. (MSC), NAVHOSP NAVB BREM; to NAVDISP MARE. Olsen, Arthur V. USS YORKTOWN; to CARAEWRON 11. Perron, Roberta E. (NC), NAVHOSP CAM LEI; to NAVCRUITSTA BSN. Reed, Elmer E. NAS QUONPT; to HEL ANTISUBRON 11. Tribble, Gordon B. CO USS JOYCE; to FLEOPCONCENPAC. Amme, Richard D. NAAS BROWN FLD CHULA VISTA; to PATRON 22. Brett, Robert P. 3ND; to 1ND. Campbell, Walter R. Jr. (MSC), PUGET SOUNDNAVSHIPYD; to NAVSTA L BEACH. Clements, Daniel J. Jr. USS INDEPENDENCE; to BUWEPS. Hoppel, Irving L. NAVSTA ADAK; to AIR TRANSRON SEVEN. Houston, Willard S. Jr. ONR NAVDEPT; to PROJOFF UPPER ATMRSCHPROGRAM STOCKHOLM.

The Armed Forces Top Command

The Honorable Dwight D. Eisenhower
Commander In Chief Of The Armed Forces

The Assistant to the President—Maj. Gen. Wilton B. Persons, USA-Ret. Special Assistant to the President—Maj. Gen. John S. Bragdon, USA-Ret. Deputy Assistant to the President—Col. Bryce Harlow, USAR. Staff Secretary—Brig. Gen. Andrew J. Goodpaster, USA. Military Aide—Col. Robert L. Schulz, USA. Naval Aide—Capt. Evan P. Aurand, USN. Air Force Aide—Col. William G. Draper, USAF.

Department Of Defense

Thomas S. Gates, Jr.
Secretary Of Defense

Deputy Secretary of Defense—James H. Douglas, Jr.
Director, Research and Engineering—Herbert F. York

Assistant Secretaries Of Defense

Franklin B. Lincoln, Jr. (Comptroller)
Charles C. Finucane (Manpower, Personnel and Reserve)
John N. Irwin, II (International Security Affairs)
E. Perkins McGuire (Supply and Logistics)
Floyd S. Bryant (Properties and Installations)
Dr. Frank B. Berry (Health & Medical)
Murray Snyder (Public Affairs)
J. Vincent Burke, Jr. (General Counsel)

Joint Chiefs Of Staff

General Nathan F. Twining, USAF

Chairman

General Lyman L. Lemnitzer—Chief of Staff of the Army
Admiral Arleigh A. Burke—Chief of Naval Operations
General Thomas D. White—Chief of Staff of the Air Force
General David M. Shoup—Commandant of the Marine Corps

Howard, William D. NSA FORT GEORGE G MEADE; to NSA EUROPE FRANKFURT. Jasper, Paul R. (CEC). NAVPWCEN NOR VA; to LANTDIV BUDOCKS AND AREA PWOFC NYK. Kidd, John D. NAVWARCOL NPT DUINS; to CO ATKRON 172. Kitterman, Douglas T. (CEC). MARCORSUP CEN BARSTOW; to NAVSTA MIDWAY IS. Lower, William B. ONR BR OFC NYK; to OIC NAVRADFAC (T) (R) LONDON ERY. Mills, Jean C. ATKRON 122; to CLARKSVILLEB. Penny, Larue D. (SC), USS GENERAL H W BUTNER; to OIC NADO NAVB CHASN. Prange, William T. CO USS FIRM; to BU PERS. Ryan, George G. SERVSCOLCOM NTC BAIN; to CO USS PREVAIL. Sliuter, Raymond P. NAVDISCHARGE REVBD NAVDEPT; to NELM. Stiles, Robert G. USS FLOYDS BAY; to PATRON 17. Winter, Henry E. Jr. USS SIGOURNEY; to USS MCNAIR.

Pitt, Marion J. Ft Sam Houston, to William Beaumont G H, El Paso. Holoman, Chester C. Ft Sam Houston, to Korea. Correll, Walter D. Ft Ord, to dy sta Wash, DC. Wolf, Charles R. Jr. Ft Benning, to ODCS-LOG USA, Wash, DC.

Major

Tsakonas, Charles T. Ft Sam Houston, to USAH, Ft Carson. Welch, Emmet E. Las Cruces, N Mex, to Northern NY Sector II USA Corps, Cp Kilmer, w/sta Buffalo, NY. Bryan, George R. Wash, DC, to Hawaii. Simpson, Thomas M. Ft Sam Houston, to Korea. To Stu Det AMSS BAMC, Ft Sam Houston

Bunte, Albert G. Ft Knox.

Feis, Robert D. Ft Knox.

Captain

Knowles, William R. Phoenix, Ariz, to 37th Med Det, Ft Ord. Foulk, William J. Ft Bragg, to USA Elm MAAG, Vietnam, Saigon. Tyndall, Arnold E. Ft Sam Houston, to Hq Third USA, Ft McPherson. Burroughs, Harland, Ft Ord, to Stu Det AMSS BAMC, Ft Sam Houston. Frus, Robert L. Ft Sam Houston, to USA Med Svc Gp, Ryukyu Is, Okinawa. Brumfield, Clyde E. Ft Sam Houston, to 5th Engr Bn, Ft Leonard Wood.

To Stu Det AMSS BAMC, Ft Sam Houston

Anistranski, Charles, Ft Bragg.

Blank, Jay P. Wash, DC.

Leifheit, Howard C. Wash, DC.

Mount, James B. Ft Lewis.

Smith, Donald, Huntsville, Ala.

Wells, Robert J. Ft Bragg.

To Korea

Stillwell, Harold V. Lathrop, Calif. Blanchard, Melvin H. Ft Campbell. Ponebshek, Carl M. Ft Sam Houston.

To Germany

From Ft Sam Houston: Seabourne, Thomas G. Langille, Robert Huncharek, John

1st Lieutenant

From Ft Sam Houston, to Station Indicated Todd, Phillip E. 93d Evac, Ft Riley. Webb, Richard, 3d, USAH, Ft Dix. Beauperthuy, Louis F. William Beaumont G H, El Paso.

To Stu Det AMSS BAMC, Ft Sam Houston

Allen, Harold E. Wash, DC.

Carollo, Donald J. Ft Leonard Wood.

Fowler, Bobbie J. Ft Devens.

Brown, Joseph I. Ft Ord.

Goodwin, Dallas W. Ft Bragg.

Hoen, Warren K. Ft Meade.

Price, Arlie D. Ft Bragg.

Veterinary Corps

Brig Gen Russell McNeilis, Chief Major

Thompson, Elmer L. Ft Sam Houston, to France.

McClary, Gordon F. Wash, DC, to Irwin AH, Ft Riley.

Army Medical Specialist Corps

Col Ruth A. Robinson, Chief

Major

Fairbanks, Emily, Ft Dix, to USAH, Ft Jay. Captain

Williams, June E. Ft Sam Houston, to Valley Forge GH, Phoenixville, Pa.

Army Nurse Corps

Col Margaret Harper, Chief

Lt Colonel

Seymore, Dorothy L. Ft Sam Houston, to Okinawa.

Murphy, Eileen K. Ft Jackson, to France. Turner, Mildred, Ft Monmouth, to Germany.

Major

Olszowy, Frances F. Tacoma, Wash, to Japan.

Hall, Frances W. Ft Sam Houston, to USAH, Ft Ord.

Moore, Leota M. Ft Sam Houston, to Madison AH, Tacoma, Wash.

Ayer, Ida B. Ft Sam Houston, to Fitzsimons GH, Denver.

Kurutz, Katherine R. Ft Benning, to Valley Forge GH, Phoenixville, Pa.

To Tripler AH, USARPAC, Oahu, Hawaii.

Johnson, Nancey A. Ft Jackson.

Massie, Myrtle D. Wash, DC.

To France

Tiffany, Bertha I. Tacoma, Wash.

Kackman, Evelyn A. Phoenixville, Pa.

Robertson, Lorraine G. Ft Sam Houston.

McSwain, Ola M. Ft Bragg.

Murphy, Helen K. Ft MacArthur.

Unverdorben, Mary E. Ft Rucker.

To Germany

Rodeman, Charlotte R. Wash, DC.

Rosebraugh, Rebecca C. Ft Benjamin Harrison, Ind.

Berg, Esther, WRAIR (3405-01) WRAMC, Wash, DC.

Browning, Edna M. Ft Knox.

Breton, Margarita E. Ft Ord.

Crowder, Wanda M. Ft Belvoir.

Trytten, Gina, El Paso.

Osborne, Naomi I. Ft Leonard Wood.

Perfett, Constance M. Ft Geo G Meade.

Maila, Ann T. Tacoma, Wash.

Schelper, Anna K. Ft Leonard Wood.

Snaadt, Corinne E. Ft Benning.

Vila, Lera V. Wash, DC.

Captain

Quigley, Kathleen E. Ft Sam Houston, to Japan.

Aragones, Blanca A. Tacoma, Wash, to Leterman GH, San Francisco.

Barnes, Ruth E. Ft Jay, to USARAL.

Ratcliff, Patricia A. El Paso, to USAH, Cp Hanford, Wash.

Wiercioch, Eleanor, Ft Dix, to 12th US ASA Fld Sta, Chitose, Japan.

Bochman, Beverly E. Ft Sam Houston, to 4th USASA Fld Sta, Asmara, Eritrea.

Mead, Patrina M. Ft Sam Houston, to Korea.

To USASETAF

Bullock, Sarah C. Ft Eustis.

O'Brien, Isabel M. Wash, DC.

To Tripler AH, USARPAC, Oahu, Hawaii.

Fairalz, Bernice I. Ft Sam Houston.

Mahan, Sarah E. Ft Devens.

Pawling, Helene M. N. Ft Sam Houston.

Peterson, Lois H. Phoenixville, Pa.

To Germany

Evans, Eleanor J. Ft Sam Houston.

Allen, Margaret H. Ft Dix.

Trott, Hazel F. Ft Huachuca.

Gluck, Shirley C. Ft Sam Houston.

Brown, Eleanor N. Phoenixville, Pa.

Kurlinski, Zuzanna R. Ft Sam Houston.

Smith, Muriel F. Ft Sam Houston.

1st Lieutenant

Del Grosso, John E. Phoenixville, Pa, to Okinawa.

To Korea

Strother, Charles D. Ft Hood.

Swenson, James W. Ft Benning.

Sovenski, Joan C. Ft Sam Houston.

To Germany

Burkhardt, Barbara R. Ft Leavenworth.

Butera, Theresa M. Ft Hood.

Kump, Delores M. Ft Jackson.

Mohler, June M. San Francisco.

2d Lieutenant

Wilson, William J. Ft Sam Houston, to Korea.

ORDNANCE CORPS

Lt Gen John H Hinrichs, C of Ord

Colonel

Richardson, Joseph M. Texarkana, Tex, to OCOFORD USA, Wash, DC.

Simpson, Donald M. Wash, DC, to USA Ordnance Red River, Texarkana, Tex.

Beaudry, Charles L. Philadelphia, to Korea.

Saholsky, Bollek A. Wash, DC, to Trans Mal Comd, St Louis.

Lt Colonel

Gaschen, Monroe L. Aberdeen Pr Gr, to Korea.

Hendricks, Mac D. Ft Monroe, to USA El JUSMMAT, Ankara, Turkey.

—Continued on page 18

M/G Powell Decorated By AF Surgeon General



MAJ. GEN. William H. Powell, Jr., Assistant to the Surgeon General, USAF, was awarded the Legion of Merit by Maj. Gen. O. K. Niess, Surgeon General, prior to his recent retirement. The award was presented for outstanding service as SHAPE Chief Medical Officer from 3 July 1957 to 3 September 1959.

Upon the occasion of General Powell's retirement, General Lauris Norstad, Supreme Allied Commander, Europe & CINC, US European Command, stated that he "contributed materially to the advancement of the Alliance by resolving many crucial medical support problems." General Thomas D. White, USAF Chief of Staff, commented that "As a pioneer in aviation medicine, you should feel proud of the progress made in the development of physical standards for airmen. You not only have established yourself as an Air Surgeon of great professional and administrative ability, but also as a doctor who has never lost sight of the individual man in the field."

General Powell is a native of Fayetteville, N. C., and is married to the former Harriet Elizabeth Stanton. They reside at 314 Kent Place, Alexandria, Va.

SGO LEGAL CHIEF

Col. Maurice Levin, JAGC, is the newly-appointed Chief of the Legal Office in the Office of the Army Surgeon General, Washington, D. C. He replaces Lt. Col. Joseph H. Rouse, JAGC.

Colonel Levin and his wife, Jane, live with their daughter, Linda, at 2300 N. Richmond Street, Arlington, Va.

The first Army Nurse Corps Reserve officer to be promoted to eagle rank is Col. Edythe Turner. She recently completed a tour as Chief Nurse at Tripler U. S. Army Hospital in Hawaii, and is en route to Brooke General Hospital, Ft. Sam Houston, Tex.

Services In Stew Over Hospital Food

From first page

Corps officers to the two-year Hotel Management Course at Cornell.

At the Ithaca, N. Y. campus, Navy officers are taught all aspects of food management and preparation, side by side with men who are aiming for top food management jobs in leading U. S. hotels and restaurants.

They even learn to cook and must personally plan, prepare and serve meals at the Cornell rathskeller and student cafeteria.

The results of this program, Navy officials say, provide the tastiest possible meals at great savings in both money and efficiency.

Dieticians are used in Naval hospitals, but they concentrate mainly on the therapeutic aspects of the food. The specially-trained MSC officer takes full responsibility as chief of the hospital's food service department.

Since 1950 the Navy has trained 31 officers at Cornell.

Army and Air Force officials, while avoiding the stew over whether men or women are better hospital food managers, depend on their dieticians as the backbone of hospital food operations.

Medical Notes In The Services:

AFIP Slates Three-Day Symposium

A symposium to discuss problems of mutual interest to medical, legal, and law enforcement officers in the Armed Forces and other government agencies, will be conducted at the Armed Forces Institute of Pathology, Washington, D. C., 3-5 May. The symposium will be composed of lectures, panels, and appropriate demonstrations of toxicological and other scientific methods used in investigations.

Specialists in their various field participating in the symposium will include Mr. Henry A. Schultz, Special Agent, F.B.I.; Maj. Joseph J. Corr, Jr., Chief, Army Criminal Investigation Laboratory; Dr. Alan Moritz, Western Reserve University, member, Scientific Advisory Board; RADM. B. W. Hogan, Navy Surgeon General; Maj. Gen. G. W. Hickman, Jr., Army Judge Advocate General; Judge Robert E. Quinn, Chief Justice, U. S. Court of Military Appeals; and Dr. Russell Fisher, Medical Examiner, Baltimore, Md.

This symposium will be the first time in military history that the three disciplines of all three services have met together to exchange views and discuss problem solution in the medicolegal area. The entire symposium will be telecast to selected military installations throughout the Washington, D. C., area via closed circuit television.

Army Health Nurses soon will have a new Army-wide record system with forms similar to those used by civilian public health nursing agencies. Previously, each Army health nurse set her own local system at the installation where she was stationed.

Up to four retirement point credits may be earned by Army Nurse Corps Reserve officers who register and attend certain sessions of the American Nurse Association's convention in Miami Beach, 2-6 May 1960. The approved sessions, which occur on each day of the convention will be indicated in the convention

program. Not more than one credit can be earned for any one calendar day.

Capt. Philip Anderson, DC, USNR, has been appointed Naval Aide to Governor John H. Reed of Maine.

The Philadelphia Naval Hospital will be 25 years old on 12 April. The first of the Navy's "sky-scraper" type hospitals, it was commissioned in 1935. The silver anniversary celebration calls for a reunion of the hospital's "plank owners" and former shipmates. All officers and men ever assigned there are requested by the hospital's CO to write for details of a planned reunion.

Capt. Robert E. Walsh, MC, USN, has reported to BuMed as Head, Procurement Branch, Physical Qualifications and

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Medical Records Division. He comes from the Camp Pendleton, Calif., Naval Hospital.

The Navy Bureau of Medicine and Surgery's "Nuclear Nursing" exhibit will be presented at the California State Nurses Association meeting in Los Angeles, 6-10 March. The exhibit, which presents the Navy's newest educational program for qualifying nurses in the principles of mass casualty management, will be supervised by LCDR. Lenore Simon, NC, USN, Department of Nuclear Medicine, Naval Medical School, NNMC, Bethesda, Md.

Capt. Henry C. Hunley, Jr., MC, USN, reporting from the Marine Corps Air Station, Quantico, Va., has assumed duties as BuMed's Deputy Director of Aviation Medicine.

SCHOOL AND CAMP DIRECTORY

The Schools and Camps listed below are effectively equipped to care for the educational and recreational needs of the children of members of the services and this Directory is recognized as an authentic and reliable aid to service parents in solving the problem of child education. For details as to the Schools listed in this Directory address them directly or communicate with the Army Navy Air Force Journal Dept. of Education, 1710 Conn. Ave., N. W., Washington 9, D. C.

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THESE SCHOOLS

Invite requests for catalogues and information. In writing kindly mention The Journal.

Army Orders

From page 16—

Trombley, Frederick A, Ft Meade, to Hq US CONARC, Ft Monroe.
Holmes, William W, Arlington, Va, to USA ADGRU Korea, Yongsan.
Allen, Lawrence B, Aberdeen Pr Gr, to USA Ord Sp Actv, Aberdeen Pr Gr, w/sta USA Ord Dist, Chicago Fld Insp Off, Chicago.
Banigan, Calvin B, Wash, DC, to Japan.
Samz, Robert W, Centerline, Mich, to USA Elm JUSMMAT, Ankara, Turkey.
Austin, Frank J, Jr, Bedford, Mass, to Korea.
Blakely, Carl P, Wash, DC, to France.

Major

McCormick, Howard W, Texarkana, Tex, to USA Elm MAAG, Taiwan, Taipei.
Rieger, Gordon J, Center Line, Mich, to Dst USA Ord Tk-Autmv Comd, Detroit, Mich.
Griffith, William W, Ft Niagara, to Tech Insp Fld Ofc, Ofc of IG, Wash, DC.
Bluntzer, Woodrow K, Nashville, Tenn, to Hq MAAG, Pakistan, Karachi, w/sta Rawalpindi.
Wilton, Ella A, Aberdeen Pr Gr, to Germany.

Captain

Olson, Roger J, Ft Lewis, to USA Ord Dist, Los Angeles, Pasadena, Calif.
Bargeron, William R, Pittsburgh, Pa, to USA Elm USMTMSA, Riyadh, Saudi Arabia.
McCabe, Jerome M, Redstone Arsenal, Ala, to USA Elm MAAG Taiwan, Taipei.

To Korea

Napolitano, Cesare D, Ft Niagara.
Sill, Robert F, Annville, Pa.

To Germany

Craft, Clayton, Rock Island, Ill.
Ongles, Jerome H, Redstone Arsenal, Ala.

1st Lieutenant

Hellman, Rogers H, Killeen Base, Tex, to SETAF.
Lacquement, Hubert W, Dover, NJ, to USMA West Point.
Ryan, Dennis W, Jr, Philadelphia, to USARAL.
Cain, David L, Aberdeen Pr Gr, to Germany.
Woy, Sally L, Aberdeen Pr Gr, to Germany.
Aldrup, Earl W, Jr, Tuscaloosa, Ala, to USA Ord Msl Comd, Redstone Arsenal, Ala.
Somers, James R, New York, NY, to Korea.

2d Lieutenant

Munro, Allan F, Ft Campbell, to TAG Pers Rsrch Gp USA, Wash, DC.
Hilbert, Ellsworth F J, Aberdeen Pr Gr, to Korea.
Croft, Frank W, Ft Riley, to 82d Abn Div, Ft Bragg.
Hoey, John E, Ft Hood, to 144th Ord Co, Ft Knox.
Newton, Loren J, Ft Lewis, to 83d Ord Co, Ft Knox.
Murray, Lark R, Ft Bliss, to Btry C 44th Msl Bn 55th Arty, Thule, Greenland.

CHEMICAL CORPS—

Maj Gen Marshall Stubbs, C Cml O

Colonel

McNary, Charles H, Army Cml Cen, to OC CMLO, Wash, DC.

Lt Colonel

Hutson, Stanton C, Ft McClellan, to Hawaii.

Major

Bogart, David E, Ft Lewis, to Hawaii.
Reiner, Howard, Ft McClellan, to Germany.

Captain

Shear, Harold W, Lafayette, Ind, to Germany.
Denner, William H, Ft Bragg, to Germany.

1st Lieutenant

Cauthen, Tommy E, Ft McClellan, to Germany.
Forgey, James D, Army Cml Cen, Md, to USA Cml C Tng Comd, Ft McClellan.

2d Lieutenant

Murdoch, George T, 2d (AI), Monterey, to Germany.

CHAPLAINS CORPS—

Maj Gen Frank A Tobey, C of C

Lt Colonel

Bell, Richard R, Ft Slocum, to Stu Det US-AWC, Carlisle Bks, Pa.

Major

Burnette, Lester E, Louisville, Ky, to Brooke AMC, Ft Sam Houston.
Hutchins, Gordon, Jr, Governors Is, NY, to USMA, West Point.
Riley, Frank C, Topeka, Kans, to Germany.

Captain

Carothers, Merlin R, Pedricktown, NJ, to 3d Msl Bn 61st Arty, Loring AFB, Me.
Causey, Calvin G, Sultland, Md, to 82d Abn Div, Ft Bragg.

TRANSPORTATION CORPS—

Maj Gen Frank S Besson, Jr, C of T

Colonel

Oliver, George L, Wash, DC, to Japan.

Army Dedicates \$10 Million Signal Relay Station At Leavenworth; Fully Automatic

FT. LEAVENWORTH, KANS.

THE Army's \$10 million Midwest Relay Station, capable of handling 200,000 messages a day with completely automatic equipment, was dedicated here on 18 February by Maj. Gen. R. T. Nelson, Chief Signal Officer.

Also participating in the ceremonies was Maj. Gen. Lionel C. McGarr, Commanding General of the Army Command and General Staff College.

The Leavenworth station is one of three that will span the Nation. The first began operation in 1956 at Davis, Calif., and the third is nearing completion at Ft. Detrick, Md.

The Midwest Relay Center, newest Signal Corps communications center in the world-wide Army Command and Administrative Network (ACAN), has both radio and wire capabilities. Its mission is to serve as a relay for messages between mid-continent communications points and other gateway centers on the east and west coasts. In addition it has direct connections with Army installations in Hawaii and the Caribbean.

The communications equipment was designed and manufactured by the Automatic Electric Company and the Klein-schmidt Division of Smith-Corona Merchant. Klein-schmidt, a pioneer in the field of printing communications, supplied the hundreds of reperforators, transmitters, and page printers which are employed in the complex system. Automatic Electric designed and produced the switching and routing equipment which makes possible the receipt, processing, and retransmission of message by fully automatic methods.

The communications center relays teleprinted messages untouched or unobserved by operators unless there is an error or a garble occurring in the message. Such errors are electronically detected and the message intercepted for correction.

Substituting electronic relays for the operator, the equipment automatically

scans incoming messages. The precedence or priority and the directional routing are recognized and the station cross office and outgoing circuits are established. The messages are then passed on their way to the distant station in a matter of seconds. In this manner, for example, a message sent from the Pentagon to Ft. Carson, Colo., through Midwest Relay may be appearing on the teletypewriter in the Carson Signal Office before the end of the same message has cleared the transmitter in Washington. A unique feature of the system is its ability to hold traffic temporarily to permit high precedence or priority traffic to clear through the Center before traffic of a lower classification.

Like the switching system itself, most of the teletypewriter equipment employed in the station was designed specifically for use in the automatic switching concept. The equipment has many new features heretofore unassociated with other units capable of the speed and reliability required. It includes a markable transmitter-distributor which is programmed to cancel transmissions, to automatically insert message serial numbers, and to act as a medium for transmitting start-of-message and end-of-message indicators without the use of a teletypewriter tape. In addition, alarms are provided which indicate either malfunctions in equipment and/or circuit failure, thereby assuring maximum security against error or delay in messages.

One of the major features of the equipment in the Center is its versatility. In line with the objective of speeding up the flow of communications, Midwest Relay is designed to operate at a speed of 100 words per minute. The system, however, can also operate at 60 and 75 words a minute, thereby making it fully compatible with all other types of systems and equipment now in use.

Lt Colonel

Daly, William L, Oakland, Calif, to USA Elm Hq SHAPE, Paris, France.

Harbaugh, Charles W, Tucson, Ariz, to Hq TUSLOG Det 33-1, APO 380, NY.

St John, Richard C, Ft Eustis, to Hq Sixth USA, Presidio of SF.

Maury, Melvin N, Ft Leonard Wood, to OC OFT USA, Wash, DC.

Major

Clouse, Howard T, Baltimore, Md, to USA Elm MAAG, Vietnam, Saigon.

Logan, Emmett M, Ft Wadsworth, to USA Elm MAAG, Vietnam, Saigon.

Captain

Nye, Elbert C, Ft Rucker, to 4th Avn Co 4th Inf Div, Ft Lewis.

Poppas, George, Jr, Ft Benning, to USARAL.

Phillips, John B, Ft Eustis, to New Cumberland Gen Dep USA, New Cumberland, Pa.

Leahy, Wallace J, Brunswick, Me, to Korea.

1st Lieutenant

Thomas, Harry L, Ft Benning, to 93d Trans Co, Ft Devens.

Paxman, James C, Ft Hood, to Stu Det USATSC, Ft Eustis.

Weinbender, William A, Ft Benning, to Germany.

Saunders, Joe W, Ft Eustis, to USA Gar, White Sands Msl Rg, NMex.

2d Lieutenant

Cooke, Elbert R, Ft Eustis, to USAAVNS, Ft Rucker.

Werner, John H, Ft Eustis, to USAAVNS, Ft Rucker.

Smith, Colin M (AI), Ft Lewis, to Germany.

MILITARY POLICE CORPS—

Maj Gen Haydon L Boatner, PMG

Major

Miller, David T, Ft Gordon, to Okinawa.

Captain

Thompson, Paul M, Ft McPherson, to Hawaii.

Parry, Stephen H, Ft Gordon, to USAR-CARIB (Antilles).

1st Lieutenant

To Korea

Scott, Douglas W, Ft Benning.

Hotta, Masao, Ft Lewis.

WOMEN'S ARMY CORPS—

Col Mary L Milligan, Director

Major

Friedrich, Helen E, Ft Ord, to Hq Fourth USA Ret Dist, Ft Sam Houston.

Lt Colonel

Snyder, Agnes P, AMSC.

Tipton, Dorothy G, AMSC.

Lee, Harriet S, AMSC.

Proctor, Stephen M, pd (60%) fr temp disb ret list.

Major

Odle, James R, pd (60%) mil records corrected.

Kramolis, Marie C, ANC.

Conion, Marcella A, AMSC.

Gayle, Mary H, ANC.

Kauffman, Kathryn L, ANC.

Classen, Gertrude M, ANC.

Kinsey, Nancy B, ANC.

Dalton, Helen D, ANC.

Peters, Marguerite L, ANC.

Bair, Cecile E, ANC.

Ross, Mary E, ANC.

Stuart, Margaret, AMSC.

Weir, Reba B, ANC.

Herget, Ione E, ANC.

Tindal, Winifred H, WAC.

Enquist, Vera A, ANC.

Huffman, Lessie P, ANC.

Hogan, Gertrude F, ANC.

Murphy, Lenore L, ANC.

2d Lieutenant

Rudin, Stuart, pd (100%) fr temp disb ret list.

Chief Warrant Officer

Christiansen, W-4 Dana F, AGC.

Dossett, John A, pd (30%) fr temp disb ret list.

Retired Upon Application

Colonel

Scott, Peter W, Inf.

DeRita, Joseph, Arty.

Keane, William M, Arty.

Dolle, Walter C, Sig C.

Lt Colonel

Reed, Charles O, Inf.

Sherwood, Rex E, CE.

Bozardt, Marion L, QMC, as Col.

Smith, Tuttle F, Inf, as Col.

Gibbons, John B, Jr, CE, as Col.

Rappe, Logan R, Arty, as Col.

Norris, Paul T, Inf, as Col.

Maxson, Melvin L, Sig C.

Izquierdo, Osvaldo M, Arty.

Mercker, Albert D, DC, as Col.

Johnson, John F, Ord C.

Poynter, Vernon L, Armor.

Hansen, George R, Arty.

Major

O'Malley, Edward A, AI, as Lt Col.

Stanek, Robert T, Arty.

Williamson, Ward W, AGC.

Capasso, Alexander, QMC.

Ullaz, John T, Inf.

Ritter, John A, Sig C.

Pociluyko, Nicholas D, Sig C.

Couillon, Anthony R, MSC.

Captain

Chaplesky, Marion P, Arty.

Erittain, John T, Sig C, as Maj.

Allen, Wade W, Inf, as Maj.

Bandel, Alexander, MSC.

Watson, Covington B, Inf, as Maj.

Chief Warrant Officer

England, W-4 Richard A, Ord C, as Maj.

Spelman, W-2 Gerald P, QMC.

Conrad, W-2 Stanley T, AGC.

Gipson, W-3 James T, AGC.

Thomas, W-2 Jack N, AI.

Szumachowski, W-2 Victor L, Arty.

Blackburn, W-3 Leroy E, AGC.

Vaillancourt, W-2 Sidney E, Jr, Ord C.

RA

Evan

Glam

Giuff

Hubb

Luett

Mayn

McC

Murd

Rudis

Breh

Canta

Davis

Foxx

Harm

Heale

ImOb

Land

McGu

Melki

Morg

Muns

Parr

Powe

Robe

Rowl

MAP Chief Palmer

CONCEDING that there have been flaws in the Military Assistance Program, General Williston B. Palmer, USA-Ret., has explained to an industry audience that the United States embarked on the Program 10 years ago "in a time of extreme danger and urgency," and as a result, the plan was marred by the fact that "it had to be executed before it could be well planned."

General Palmer made this observation 11 February at a Luncheon Meeting of the National Security Industrial Association's Washington, D. C., Chapter.

He said that "thousands of dedicated American military officers and civilians have worked their hearts out to make the Program work in spite of its handicaps."

Deputy CinC of the U. S. European Command at the time of his retirement late last year, General Palmer was recalled to active duty 15 January to become the Defense Department's MAP Director. He was succeeded in Europe by

Seeks Industry Support; Cites Low Cost Of Building Allies

his brother, General Charles D. Palmer.

In the early years of the Program, the MAP Chief said, "the most characteristic difficulty has been countries offering to raise forces beyond their actual capacity to raise and take on modern weapons and equipment far beyond their actual capability in technical and mechanical skills. Neither they, nor we on the American side, knew—or could know without years of investigation and analysis—what they were really able to handle. The crisis would not wait for us to spend those years in investigating."

MAP has come in for sharp criticism from Congress, particularly from Senator Allen J. Ellender (D-La), who holds that some MAP nations are not contributing forces or funds commensurate with their financial capabilities.

General Palmer stressed that "there has been steady improvement everywhere in the running of the MAP operation."

He recalled that a Committee was ap-

pointed by President Eisenhower in November 1958 to make an appraisal of the Program.

Following its study, the Committee concluded that the Program "has been one of the principal instruments abroad of supporting our foreign policy objectives." The Committee recommended an annual expenditure of about \$2.5 billion a year for MAP and put a floor on the importance of the plan by stating "\$2 billion per year for Fiscal 1960 and for a number of years to come is the lowest level that should be used in our projections."

Congress appropriated \$1.3 billion for FY '60.

General Palmer told NSIA that the total of all major National expenditures from Fiscal Years 1951-59 was approximately \$337 billion, with only 1/16 (or \$23 billion) going to military assistance. About half of the \$23 billion, he said, was spent during and immediately after the

Korean War, "when we were striving to strengthen our Allies in a hurry."

During the past five years, MAP averaged \$2.4 billion annually.

The MAP Chief called upon NSIA members to exert efforts to educate the public to an understanding of the need for continuation of the Program.

He cited the conclusion of the President's Committee which stated: "The average American citizen does not now relate his security to the effectiveness of the military and economic assistance programs . . . He is often unable to acquire a personal feel of the intensity of the cold war—or of the deadly seriousness and growing strength of the Soviet threat. It is essential to bridge this gap of understanding . . ."

"If the NSIA or any of its members can assist in this work of public education," General Palmer stressed, "you will serve the Republic well."

To Major

W/DR 1960

3 Feb: Madigan, William, Armor.
4 Feb: Cook, Marion E, AMSC.
5 Feb: Hayes, Stephen H, CE.
6 Feb: Schmid, William K, Arty.
8 Feb: Von Der Bruegge, John H, Jr, Arty.
Belser, John H, DC.
10 Feb: Hursh, Donald G, Jr, FC; Wells, Thomas M, Jr, JAGC.

To Captain

W/DR 1960

3 Feb: Veditz, Raymond F, TC; Johnson, Wirt VanM, MSC.
6 Feb: Ingram, Harvie T, Sig C.
7 Feb: Ecrette, Joe D, TC; Hoye, James G, QMC; Jordan, Donald R, TC; McIntosh, John H, QMC; Vielhaber, David P, MSC.
8 Feb: Horton, Richard D, TC; Bullock, Howard B, MSC.
9 Feb: Price, Helen E, AMSC.
10 Feb: Blanton, Clay E, Arty; Harrison, Robert C, QMC; Wisdom, Donald A, CE; Jones, Virginia A, ANC.

To 1st Lieutenant

W/DR 1960

3 Feb: Whatley, Howard G, TC.
4 Feb: Owens, Ronald E, QMC; Whitman, Annie M, WAC;
5 Feb: Wharton, Walter N, CE.
8 Feb: Fleming, Jerry L, Arty.
9 Feb: Hall, George W, Jr, CE; Kegleman, Theodore J, Jr, Arty.
10 Feb: Machen, Bobby, CE.

RA PROMOTIONS CONFIRMED

To Lt Colonel

Evans, Murray F, MSC.
Gambellucci, Nat, Cml C.
Gluffre, Matthew R J, Inf.
Hubbard, Frank G, TC.
Luettgen, Edward M, CH.
Maynard, John B, Jr, Arty.
McConnell, John A, Inf.
Murdock, Richard G, Armor.
Rudisill, John W, Jr, DC.

To Major

Brehm, Thomas W, DC.
Cantara, Raymond H, Ord C.
Davis, Richard W, Jr, Inf.
Doane, Richard A, DC.
Foxx, Fred F, DC.
Harmeling, John T, Arty.
Healey, William R, Inf.
ImObersteg, Neil, Armor.
Lands, Lincoln, Inf.
McGuinness, William V, Jr, CE.
Mikle, Wendell A, DC.
Morgan, David C, Armor.
Munson, James A, Arty.
Parr, Robert J, Inf.
Powers, John J, Jr, Inf.
Roberts, Gene A, Inf.
Rowland, Hampton, Jr, Inf.
Shomo, Joseph L, DC.
Torp, Mary J, AMSC.
Uhlund, Herbert W, MPC.
Winstead, Richard S, Sig C.

To Captain

Bartlett, Fred O, Jr, Inf.
Bellis, William H, Arty.
Bracken, Glenn A, Inf.
Burns, Sumner C, Jr, TC.
Cannon, John L, CE.
Childress, Gerald, Arty.
Corley, Robert J, CE.
Coston, Charles D, Armor.
deShazo, Thomas E, Jr, Arty.
Espy, Carl L, Jr, Armor.
Fewell, Oscar C, Jr, Arty.
Frankeberger, John R, Arty.
Frederick, Austin, Inf.
Friedman, Arthur M, MPC.
Garcia, Efraim S, Arty.
Goetsch, Elmer A, Sig C.
Greenquist, James C, TC.

To Major

Hale, Delmas M, Sig C.
Hamby, Dolph F, Jr, Inf.
Harrington, Robert H, Arty.
Harris, Daniel D, Jr, Inf.
Holden, William B, Inf.
Hutchins, John A, Jr, Armor.
Hylton, Irvin L, TC.
Jan, Lloyd V, MSC.

Jelinek, Howard C, Arty.

Jenkins, Wallace E, Arty.

Johnson, Raymond E, Sig C.

Johnston, Gerald S, MC.

Jones, Wesley G, Inf.

Keeler, Robert B, Inf.

Keltz, Richard E, TC.

King, Edgar W, Jr, MC.

Kochanek, Louis J, Inf.

Kraft, Donald E, Sig C.

Lang, Vaughn O, Sig C.

Leary, Arthur J, Jr, Inf.

Lee, James M, Inf.

Leonard, John T, MC.

Maxham, Robert L, Armor.

McCormick, George R, Arty.

McCrindle, Robert, CE.

McDonald, Harold F, TC.

Miller, George W, Inf.

Montgomery, Roena, ANC.

Montrose, John L, Jr, QMC.

Mooneyhan, Jack L, Armor.

Morrison, George E, 3d, TC.

Munoz-Noya, Orlando, DC.

Myers, Lawrence S, Inf.

Olsson, Ray A, MC.

Pierce, Samuel M, Sig C.

Pratt, Joseph B, Sig C.

Price, Robert W, Sig C.

Rodriguez, Joseph C, CE.

Samuels, Steven A, Arty.

Satterfield, James R, AGC.

Schriever, Byron N, CE.

Schuver, Rudy P, Arty.

Seabourne, Thomas G, MSC.

Smith, Noel M, QMC.

Smith, Richard H, Sig C.

Smith, Vernard J, Inf.

Stoutamire, David F, Jr, Armor.

Strauss, Stephan N, Armor.

Strong, William R, QMC.

Szalwinski, Ambrose A, Arty.

Tanner, Eugene P, Inf.

Taylor, George E, Armor.

Whelan, William E, QMC.

White, Dean, TC.

Willard, Robert B, Sig C.

Yetter, Greyson T, CE.

Young, John D, TC.

To 1st Lieutenant

Amos, J E, QMC
Baxter, W P, Inf
Blewster, J C, Inf
Bray, J R, Jr, Ord C
Buchanan, J R, Inf
Carter, R H, Jr, Inf
Chandler, R L, Arty
Coughlin, J L, AGC
Demers, G Z, Ord C
Eckert, W N, TC
Edwards, C A, Arty
Frederick, W R, 3d, Arm
Glenn, C A, Arty

TEMPORARY PROMOTIONS

To Colonel

Allgeier, Robert M, MPC; Antozzi, William O, QMC; Besse, Warren E, Ord C; Blake, William L, Armor; Butler, Allen S, Inf; Kane, Charles F, Inf; Sheppard, Harvey E, CmIC; Walker, John H, Jr, TC.

To 1st Lieutenant

Walsh, Richard J, Inf; Blair, Charles F, Inf; Roach, Armand D, Jr, TC; Whitehead, Dorsey M, Arty; Robertson, John B, Inf; Rudisill, Abram, SigC; Cook, Robert W, Arty.

APPOINTED IN RA

2d Lieutenant

Durbin, J A, Inf
Martin, R G, FC
Riley, D A, SigC

HONORABLY DISCHARGED

Larsen, Lt Col Gerald E, Inf
Payne, Capt Robert B, OrdC.
MacDonald, 1st Lt Donald L, Inf.

BRANCH ASSIGNMENTS

McCarthy, Maj Leo C, fr MPC to Inf.
Fair, Capt Harry, USAR, fr Armor to AI.
Cannon, Capt Timothy G, fr QMC to Inf.
Hall, 2d Lt Fred W, Jr, fr Inf to OrdC.
Hill, 2d Lt Walter B, Jr, fr Armor to MSC.
Owens, 1st Lt Robert C, fr Armor to Ord C.
Johnson, Lt Col Leonard L, fr Armor to FC
Gibson, Maj Ramon S, fr OrdC to Armor.
Hannon, 1st Lt Murray W, Jr, fr Armor to FC

DESIGNATED ARMY AVIATORS

Master Army Aviator

Smith, Capt Joseph P, SigC.

Senior Army Aviator

Cretin, Capt Theodore D, Arty.
Dugger, Capt Morris W, TC.
Humphrey, Marvin E, TC.
King, Garland B, SigC.
Jennings, Capt John L, Inf.
Nichols, Capt Frank S, CE.

ADVANCED ON RET LIST

Barrett, S/Maj James, to 1st Lt.
Battison, M/Sgt Joseph T, to 1st Lt.
Roy, M/Sgt Ernest C, to 1st Lt.
Foy, M/Sgt Ernest C, to WO.
Finnemore, M/Sgt Merton G, to WO.
Billet, Cpl Abraham D, to Sgt.
Marker, Pvt Dale E, to Sgt.

EM RET & TRF TO USAR

Atkerson, Sgt G W, sr
Banks, M/Sgt E D
Baxter, M/Sgt D U
Brekke, M/Sgt N E
Casebolt, Sfc W
Cates, Sgt Homer D
Cox, Sfc Russell F
Dewey, Sfc R L
Dunn, M/Sgt C W
Gregory, M/Sgt E A
Hayden, M/Sgt H F
McWhirr, Sfc H A
Monk, Sgt W J
Seaton, Sp4 Martin H
Siler, M/Sgt Marshall
Williamson, Sfc M

Baber, M/Sgt F J
Brazier, Sgt Bill, Jr
Cochran, Sp5 Julius T
Erickson, Sp5 Eric
Estropia, Sgt Miguel
Flannigan, M/Sgt K
Floyd, Sp5 Thomas A
Geordon, Sfc Jake
Hahne, M/Sgt E S
Hammock, M/Sgt R L
Ingram, Sfc Earl C
Johnson, M/Sgt E R
Keso, M/Sgt Reed Y
Koncheck, Sp5 Carl A
Leerkamp, M/Sgt H G
Luck, M/Sgt E H
Mayer, M/Sgt John J
McCormick, Sfc R L
Dunham, M/Sgt H B
Bartlett, Sfc Leroy W
Bundy, Sgt C W
Caldwell, Sfc R F
Flanagan, M/Sgt R H
Grace, Sp5 Wallace E
Haney, M/Sgt T L
LeMarr, Sp4 Ralph A
Snow, M/Sgt Frank
Stopfer, Sp5 Joseph V
Schmidt, Sgt C W
Allen, Sfc Irwin
Ash, Sp4 Charles
Baird, 1/Sgt G A
Cantrell, M/Sgt H A
Daniel, S/Maj F L
Hawkins, M/Sgt C R
Malnarick, Sfc L E
Fernandez-Caraballa, S/Sgt Alfonso
R N
Jones, Sp5 James L
Barnhart, Sfc I H
Dike, Sfc Warren A
Love, Sfc N P
Renfree, Sfc F, Jr
Self, Sfc James E
Martin, E H, CE

Villaflores, Sp5 G
Allen, Sfc Irwin
Ash, Sp4 Charles
Baird, 1/Sgt G A
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R N
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Barnhart, Sfc I H
Dike, Sfc Warren A
Love, Sfc N P
Renfree, Sfc F, Jr
Self, Sfc James E
Martin, E H, CE

ENLISTED MEN RETIRED

Hunter, Sp6 John E, as Lt Col
Pierce, M/Sgt Franklin M, as Maj
Watts, Sgt Augustus A, as Lt Col.
Rice, Sgt Allen F, as Col.
Johnson, M/Sgt Frank, as Lt Col.
Lewis, Sgt Raymond J, as Col.
Slattery, Sp7 Arthur R, as Lt Col
Gizzi, Sfc Ernest P, as Lt Col.
Schegolkin, Sgt John E, as Maj.
Alexander, M/Sgt Robert M, as Lt Col.
Lewey, 1/Sgt D N, Newman, Sp5 W P
Netterville, Sfc C D, Painter, Sfc J W
McLain, Cpl Billy E, Serna, Pvt E E
Weiner, Cpl Arnold N, Johnson, Sp4 W
Taylor, Pfc H D as Brewer, M/Sgt Earl V
Cpl
McNabb, Sfc C G, Murray, Pfc Henry E
Mason, Sp3 J W, Redmond, M/Sgt J B
Moore, Pfc Carl L

USAF Orders

From page 9—

Bickerstaff, B M, Kaiser, George B, as Col.
Chambers, (Maj) Dale R, as Maj & adv to Lt Col.
Carrithers, Judd M, Engel, Richard B, as Col.
Elirod, Thomas H, as Lt Col.
Green, John L, Eremich, J V, as Lt Col.
Van Dyck, Hr'ld A, as Lt Col.
Hohberger, Ernestine F, Chash, Murray H, Smith, Webster, Pritchard, Winifred W, Hayden, Willard A, Beadle, Henry E, Jansen, Edward H, Pascal, Samuel, as Lt Col.
Thomas, Raymond F, as Lt Col.
Bell, Mildred A

Captain

Harrell, Ralph A, as Maj.
Leguin, Hubert A, as Maj.
Stultz, William E, as Maj.

Bryant, Jack P, Hart, Franklin A, as Maj.
Murray, John E, Jr, as Maj.

Furr, Glenn C, Martin, Paul, as Maj.
Ross, William J, Leighty, Robert J.

1st Lieutenant

Taylor, Donald F, Jr, Chief Warrant Officer

Hazard, W-3 Oscar T, Merrill, W-4 Jack P, Moberly, W-4 Walter R, Easley, W-3 Wilburn C, McBryde, W-2 Harmon

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PHOTOGRAPHY

Weddings—Babies—Portraits—Maj. Norman MacVicar, Ret. Graduate, Brooks Institute of Photography, 5509 Broad Branch Rd., NW, Washington 15, D. C., Tel. EM. 2-5509, evenings.

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USAF Orders

From page 19—

Campbell, Capt Stanley J. Clark, Capt William J. Dennis, Capt James L. Kirsch, Capt Donald D. Helms, CWO-2 A C.

PERMANENT PROMOTIONS—

To Captain
W/DR 60

30 Jan: Maurada, F J, jr; McCurdy, Garvin; Eknes, D M. 31 Jan: Humphries, Jack T. 2 Feb: Nolan, John E; Gray, Robert L; Borgman, L H; Eby, C L; Thurman, James A; Roussel, R J; Ash, R S; Lipsey, E G; Gibbons, L E, jr; Gesling, T C, jr; Hosch, T L; Payne, Harry E; Ring, Richard E; Sutherland, H D; Sweeney, David L; Klemm, D M; Tulberg, E E; Smith, Robert H; Winn, C B, 2d; Lotermoser, D G; Cutler, Dale E; Sala, J D; Szalay, J J; Howell, Ernest L; Stranderwick, R L; Toepe, C A; Sikes, Clyde B, Jr; Schwab, Frederick E; Hillerud, R T; Hensley, Robert S; Ragland, F W; Nordbrook, D O; Evans, M L; Finlay, Arthur P; Hyde, G A; Montgomery, Thomas H, Jr; Whitmore, James E; Gibson, Roderick C; Acton, John C, Jr; McNulty, Leo C; Niemela, J R; Freeman, David F; Briggs, James P; Dunn, Clyde F, Jr; Whitlatch, Wayne E; Alken, Donald W; Newell, William E; Till, Arthur N, Jr; Maddox, Charles R; Callahan, Daniel B; Robbins, Earl C, Jr; Salsberry, Rex C; McArm, Kenneth H; Todd, Robert E; Rowe, Frank A; Emigholz, Don R; Knourek, Vernon G; Custer, Brice C; Twinting, William T; McNair, Billy J; Lapham, Robert G; Pinckney, Lucian W; Tilson, Philip A; Ungerott, Donald C; Lang, Richard H; Doty, Charles D; Pearson, Donald B; Nicoloan, Lenin S; Cossman, Donald R; Guenther, Lawrence A; Park, Karl S; Thompson, Paul D; Nohe, Jerry A; Jones, Basil R; Wieland, Paul L; Duplechain, Norwood G; Basinet, David J; Noles, Charles F; Cook, Mark D; Beason, James L; Henningsen, James L; Barton, Robert B; Fox, James K; McCormick, Warren B; Files, Clyde R; Keller, John J; Yates, Elmer L, Jr; Finlay, Charles C, Jr; Hicks, Charles E; Frondorf, Thomas H; Saueressig, Joe S;

Frederick, Raymond L; Ogle, Fredric E, Jr; Harris, Robert L; Vanduren, Charles E A; Raines, Lewis E, Jr; Hunt, Jack W; Thompson, Norman A;

Crimp, Edward A; Armstrong, Elmer L; Warner, Milton J, Jr; Chaffee, Court B; Armstrong, Donald C, Jr; Nelson, David A; Gee, Garland G; Klein, Kenneth E; Smith, Guy E; McGuire, Thomas W, Jr; Spannaus, Harry A; Corbisiero, John V; Krautkramer, Gordon J; Wesbrook, Richard L; Medley, David L; Starnes, Francis H; Weaver, Joseph B; Thornton, William.

3 Feb: Nabors, J C.

5 Feb: Arndt, Robert F; Cosper, Clifton G; 6 Feb: Day, Jay H; Watkins, Jack L; Fowler, John F; Mavallee, R J.

7 Feb: Jennings, James W; Elsbernd, A A; McGlohon, Lewis B; Carlson, Ray W.

8 Feb: Richards, Robert A.

9 Feb: Hunter, Robert D; Brown, Thomas B; Rafowski, W J; Phillips, Glenn A; Hubbard, Eben R.

To CWO-3

30 Jan: Keith, William E.

31 Jan: Ross, Carl.

2 Feb: Steed, Guy L.

3 Feb: Dieckhoff, W R.

4 Feb: Ackerman, Norris E.

5 Feb: Wood, Holda M, Jr.

6 Feb: Oakley, Earnest L, Jr.

8 Feb: Smith, William B.

9 Feb: Busch, Frederick M.

To CWO-2

30 Jan: Harris, Gerald S; Smiley, A C; Horton, Dale J; Scruggs, R D; Vaughn, Raymond L; Lively, Henry M; Altman, Martin C.

31 Jan: Carlton, William E, Jr; Gossard, M C.

2 Feb: Loisel, G J; Maciag, J J; Casale, Arthur.

7 Feb: Cale, Albert J.

9 Feb: Lupton, G L, Jr; Makay, John.

REGAF PROMOTIONS CONFIRMED—

To Captain

Breigbeder, F R; Christofferson, Richard J; Faircloth, Henry S; Fuhrman, D D; Graham, Thomas L; Landry, Paul L; Moe, Stanley K; York, Charles A.

To 1st Lieutenant

Jones, Douglas N; Lauritsen, Terry M; Sammis, Donald S, Jr; Schmidt, Frank K; Casimiro, Paul S (MSC).

TEMPORARY PROMOTIONS—

To Major

Linn, Julius, Jr; Nelson, Thomas O; Benit, H J; Michaelis, D R; Sinsabaugh, R M; Fox, Bruce F; Riess, Donald A; Rosenow, J J; McMullen, Joseph B; Baldridge, W J; Brock, James E; Merlo, Anthony L; Ridler, George E; Potter, Davis B; Finneran, M J; Brown, Elzie C, Jr; Atchley, R M; Johnson, Ivan D; Mulligan, Edward B (ChC).

REGAF APPOINTMENTS—

To 2d Lieutenant

Distinguished Military Grad, AFROTC Anderson, Donald W; Cochrum, K L; Contella, M C; Coston, J F; Craig, David C; Driskill, J W; Eastes, R E; Edenberg, B G; Farrell, Joseph M; Favell, L A; Fisher, Paul T; Granade, S D; Harlan, Billy C; Harris, Robert C; Hicke, Donald R; Holt, Elmer E; Kerby, M C; Key, James P; Lam, Carroll F; Lawaetz, Hans; Luhrman, Charles R; Luke, David C; McDowell, Russell V; Merkle, Douglas H; Mettsker, Robert C; Mitchell, Donald B; Partin, James W; Powell, William E; Riddle, George M; Ross, James C; Rubel, Louis P; Sattler, Frank J, Jr; Simmons, Warren L; Sprinkle, Howard B; Stewart, Robert B; Trzaskoma, Richard J; Waynuk, Michael, Jr; Wheelhouse, Jay L; Willingham, Larry D; Winton, Albert J; Woodring, Marvin J; Yetka, Norman D.

Distinguished Avn Cadet Grad

Fitzsimmons, Frederic S; Hearn, Reginald A; Martin, Robert A; Selberg, Donald L; Starkey, Alden R; Wilson, Norman D.

Distinguished Officer Candidate Grad

Henry, Sheila M.

HONORABLY DISCHARGED—

Smith, Col (LtCol) Claude W.

CORRECTION—

Parham, Col Harry C, prev ors re his ret IATR "Parham, Col (LtCol) Harry C," ret as Col.

Higby, WO George R, prev ors re his perm prom to W-2, IATR "Higby, George R."

AIRMEN RETURNED TO RET STATUS—

Dunnahe, M/Sgt Clarence G. Laird, SM/Sgt James M. Cook, M/Sgt Floyd T.

AIRMEN RETIRED—

M/Sgt: Brink, Cecil; German, Russell F; Spanton, W C; Gentry, John C; Malone, Bernie N; Markowitz, David; Dennis, Charles E; Moon, Edward J, as Maj; Kennedy, Willard N; Culp, John N; Roos, Charles R.

T/Sgt: Fuller, Carl S; Clark, Julian C; Legassie, James A; Smalley, R W, as M/Sgt; Short, Jack; Solak, Edmund A; Hollingshead, C W; Warwood, Edward.

S/Sgt: Boyle, Felix O; Smed, Duane G; Ray, Jerome B; Green, William J.

A/IC: Gillespie, Levi R; O'Neill, Terrence J; Jozwiak, A F; Long, Murel T; Griffin, Harold L.

A/2C: Richardson, Clifton G; Cuffee, Luther; Elmer, Charles E, Jr; Dickey, Curtis A; Camphausen, R W; McEneaney, Thomas; Deseife, A E, Jr.

A/3C: Patterson, Henry, Jr; Vogel, Burrows M.

A/B: Hubbard, Louie W, as M/Sgt.

Army Navy Air Force Journal 21
20 Feb. 1960 (Vol. 97, P. 689)

Al Cline Resigns At Northrop

A. V. Cline, for the past 12 years director of public relations for Northrop Aircraft and Northrop Corp., has resigned, effective 1 March, to establish an industrial service organization in the Los Angeles area. He will continue to serve Northrop as a consultant.

Thomas V. Jones, Northrop president, said the appointment of a successor will be announced within a few days.

Mock-Up Of Army Chinook Is Shown



PICTURED above is a full-scale mock-up of the Army's new twin-turbine powered YHC-1B Chinook helicopter, rolled out on the flight ramp at Vertol Aircraft Corp. plant in Morton, Pa. Taking off behind the YHC-1B is an Army H-21C. Although the YHC-1B is one foot shorter in overall length than the currently operating H-21C, the new helicopter has almost three times as much space in the unobstructed cargo compartment. The first YHC-1B, powered by two Lycoming YT55-L-5 shaft turbine engines, is scheduled for roll-out in January 1961. The full-scale model was recently reviewed by a joint Army-Air Force Mock-Up Board meeting held at the Vertol plant.

U. S. COAST GUARD

Secretary of the Treasury—Robert B. Anderson

Commandant—Vice Adm. Alfred C. Richmond

HEADQUARTERS has advanced 11 CPO's to temporary warrant rank, W-1, effective 1 March.

Their names and the categories to which they are assigned are:

Supply Clerk—John M. Howarth, Artie L. Whitford and Charles M. Burleson.

Gunner—William E. Simmons.

Radio Electrician—Robert A. Burjouce.

Machinist—Marvin C. Fields, Norman G. Goben, Donald J. Cleveland, James A. Thompson and Jack Meadowcroft.

Ship's Clerk—Theodore E. Schaeffer.

Assignment Changes

Captain

DeMartino, Marius, Dep Cdr, East Area to CGD3 (des) (collateral duty as Dep Cdr, East Area).

Wuensch, Henry J, HQ (Asst Ch Off of Pers to Ch Office of Pers).

Lieutenant Commander

Bosnak, Robert J, MIT, Cambridge (Duins), to ESCANABA (EO).

Chapin, Harry H, MIO, Galveston (Designated SIP).

Dinsmore, Robertson P, COMINTICEPAT (Designated XO).

Lieutenant

Bleakley, Wilfred R, Jr, WINNEBAGO (EO) to HQ (MMT).

Dawley, Joseph P, CASCO to RTC, Yorktown (TEMINS/MM Indoc) thence MIO, NOREANS—CANCELLED. CASCO to MIO, Boston.

Happel, Paul R, ESCANABA (EO) to CGD8 (mm).

Kraine, Gilbert L, DUANE (EO) to HQ (MMT).

Urfer, Kenneth D, MATAGORDA, to BERING STRAIT (EO).

The following officers are ordered from duty under instruction at the Military Institute of Technology, Cambridge, Mass., to the listed ships:

Grabb, James E, to KLAMATH.

Lucas, Robert S, to WINNEBAGO (EO).

Mann, Graeme, to BIBB (EO).

Markle, William D, Jr, to EASTWIND (Engr Duty).

Mathieu, Charles E, to DUANE (EO).

Schumacher, Keith, to WESTWIND (Engr Duty).

Stirling, Albert C, to NORTHWIND (Engr Duty).

Lieutenant (jg)

Lawson, Leon D, AVOYEL (EO) to CGD2 (ene).

Newton, James A, Depot, Yerba Buena Isl (XO), to Group, Yerba Buena Isl (Duty).

Read, Billy C, IRIS, to WPB-95325 (CO).

Van Zandt, Jack E, WPB-95325 (CO), to MIO, NOREANS.

Whaley, William E, Jr, MACKINAC (Engr Duty), to Base, St George (Engr Duty).

Ensign

Bazajou, Roland H, DEXTER (Engr Duty) to AVOYEL (EO).

CWO-2

Elling, Christopher D, YARD to INGHAM.

WO-1

Dyer, Charles H, Jr Group, Sabine to BLACKHAW.

Miller, Clarence L, LTS, Nomaike to MADRONA amended to Group, Charlevoix.

Dollard, Francis X, ANDROSCOGGIN to Base, St George.

Howarth, John M, CGD7 to ANDROSCOGGIN.

Rek, Joe J, MENDOTA to YARD.

Readers' Views

From page 10—

point on the earth to another, regardless of weather.

And, if Alice really loves to fly airplanes, he can come fly for fun at his own expense like I do in any of our Army Flying Clubs!

DONALD McB. CURTIS
COLONEL, U. S. ARMY
FT. ORD, CALIF.

Hébert Action Draws Comment

■ As a continuous reader of THE JOURNAL, I have followed with interest your reporting of the Hébert Sub-committee, and because I am alarmed at the direction their thinking is taking, I would like to submit my views on the subject.

In their zeal for sensational issues, I feel that the Hébert Sub-committee has placed the shoe on the wrong foot. To review the bidding—let us remember that the present dual-compensation laws were passed during the depression days of great unemployment. Their purpose was to assure that an officer already drawing federal retirement pay did not deprive the unemployed from their slice of the federal pie by taking a federal job. This was perhaps expedient legislation for those times, however today by executive order, our government is committed to a full employment economy, which effectively nullifies the need for such outmoded legislation.

Our free enterprise system which we prize so highly, works essentially on the principle of supply and demand. To operate most efficiently and effectively then, the flow of our basic resources of manpower, money, and materials should move from the area of supply to meet the demand in the cheapest and most rapid manner possible. This means being as unfettered by artificial restrictions as possible. Applying this to manpower, it means that certain skills required by our economy (be they salesmanship, executive positions, or direct labor) will be bid for in the labor market. Economically then, these demands should be met from the labor pool by those best suited and qualified to perform these tasks, be they retired regular officers, reserve officers, defense department employees, or someone who has never seen a uniform. Now the Hébert Sub-committee, by its proposed legislation, is attempting to impose a restriction on this free flow of manpower, which of course leads to an inefficient use of this most valuable resource.

Perhaps a more serious aspect to consider is the denial of one of the freedoms for which these dedicated officers have devoted a career to protect. The freedom to seek the type of employment best suited to an individual's training and ability, and which will bring the greatest rewards to him is not only a right granted to the citizens of this country, but is widely acclaimed as one of the significant factors which have made this country great. We hold out to other nations that in this land of ours there is equal opportunity for all. Apparently this freedom of choice is to be denied to those who have worked the hardest to preserve it.

If legislation is required, would it not be more appropriate to put the shoe on the correct foot for a change. One of the basic tenets of the military profession is that everyone in it is subject to the most rigorous discipline. Cannot this discipline be applied to those in the services so that they seek only the best and the most defense for the taxpayers dollar? Cannot defense personnel be so disciplined that they will reject a sales approach regardless of from whom it comes, which offers less than that?

Setting aside the obvious morale factors involved, and also the fact that such legislation could be a serious consideration to young men as to the ad-

visability of choosing a military career, we must recognize that almost every business in the country is involved in defense work of some sort, and this trend is increasing. Is management now going to be restricted in how it can best utilize the abilities of its ex-officer personnel because some functions might be interpreted as sales to the government? Might not this, and the added burden and cost of having to furnish lists of ex-officer employees tend to discourage private enterprise from hiring retired officer personnel? Thus it would seem that the field of available employment for retired officers would grow ever narrower, and the tentacles of government control invade still another area of private industry.

Perhaps the Hébert Sub-committee could perform a real service to the problems of national defense if they would but direct their energies to the proposition of assisting these retired officers in finding employment where their valuable acquired military and defense knowledge can be put to maximum use for the good of the country instead of setting forth occupations where they shall not work. In all fairness, I think we should examine both sides of the coin.

COMMANDER, U. S. NAVY

Preserve USCOA

It is unfortunate so many, such as "Retired" in letter published 9 January, do not see the very great values of USCOA and look on it as a liability.

It is an error to say "Many officers are making rather sizeable monthly contributions to the government with the prospects of receiving little or nothing in return." Examine the obituary column of THE JOURNAL and ask yourself what pension the widows of those deceased retired officers are receiving. If fuzzy thinking did not prevent them from selecting USCOA for $\frac{1}{2}$ reduced retired pay, their widows are receiving an annuity instead of nothing, AND, somebody has to pay for it. The deceased retired officer gets a great deal back in the form of a pension for his widow. Surviving officers must, of course, keep the pot filled with their contributions, to pay the annuities to the widows. And let us never forget, it isn't only the other fellow that dies. "Retired," what income will your widow have, or will your retired pay be buried with you?

COA cannot be directly compared with regular life insurance. Premiums on life insurance normally are begun and paid during active duty to provide both protection and savings. COA deductions do not begin until retirement, and if death comes prematurely before retirement, no deductions are made at all. It should be added that life insurance must be a good investment since the bulk of most estates of career military personnel consists of life insurance property.

COA is a group participation plan and therefore must have certain requirements as to joining and leaving the plan. The rates were constructed by the very best actuaries and will be adjusted if times prove them excessive. But to conclude that it is better to put \$55.04 per month in a Savings and Loan Association at 3% than in COA is nonsense. If death comes one year later, the Savings and Loan will return \$665.48 to the widow plus interest while COA will deliver a check (in the example given by "Retired") for \$122.74 each month for maybe 30 years.

From time to time it may be expected COA will be amended by Congress to make it more liberal, provided it does not imperil the plan. But what COA really needs is greater participation to give it a broader base assuring more service wives a share of the retirement pay they made great sacrifices to help attain.

R. A. HOBBS
CDR, USNR

Pentagon Seeks '61 Building Funds

The Armed Services have asked Congress to vote more than \$116.5 million for construction of family and bachelor housing, hospital, medical and morale facilities during the year starting 1 July.

Details of the construction plans were outlined to the House Armed Services committee by Assistant Secretary of Defense (Properties and Installations) Floyd S. Bryant.

The Committee is expected to complete hearings next week on the military constructing authorization program. Funding will be considered later by the appropriations committees. Secretary Bryant gave this breakdown of housing, medical and morale facilities planned for each of the Services:

ARMY

Troop Housing—\$14,870,000 to provide 3,225 barracks spaces and 657 BOQ spaces, and related dining facilities in the U. S. and overseas.

Hospitals—\$8 million for a three hundred bed hospital at Ft. Leonard Wood, Mo., and a 75-bed hospital at Aberdeen Proving Ground, Md.

Morale—\$3,657,000 for community, welfare and morale facilities, including chapels, post exchanges, gymnasiums, theaters, libraries, and other community support facilities.

Family Housing—\$2,243,000 for 53 units of appropriated fund family housing at Ft. Greely, Alaska. The Army also is seeking authority for 3,283 Capehart family housing units to be funded separately.

NAVY

Troop Housing—\$19,244,000 to provide 2,975 barracks spaces, 986 cadet quarters, 252 BOQ spaces and related dining facilities, in the U. S. and overseas.

Medical Facilities—\$500,000 (not specified).

Family Housing—\$7,358,000 for 200 appropriated fund family housing units in Okinawa, 100 surplus commodity units in Spain, and 26 surplus commodity units in Turkey. The Navy also is requesting authority to construct 3,790 Capehart family housing units.

Morale—\$4,614,000 for community welfare and morale facilities, including service clubs, commissaries, religious activities centers, theaters and other community support facilities.

AIR FORCE

Troop Housing—\$15,995,000 to provide 4,114 barracks spaces, 492 BOQ spaces and related dining facilities in the Continental U. S. and overseas.

Hospitals—\$9,467,000 for hospital and medical facilities, including a 50-bed hospital at Castle AFB, Calif., a 50-bed hospital at Dow AFB, Me., and a 225-bed hospital at Maxwell AFB, Ala.

Morale—\$19,143,000 for community, welfare and morale facilities in the U. S. and overseas, including service clubs, chapels, post exchanges, recreational facilities and other community support facilities, including dependent schools in Germany, Japan, Okinawa, Canada, Crete and Turkey.

Family Housing—\$11,906,000 for 688 family housing units at overseas locations, 288 of which will be surplus commodity units. The Air Force also is seeking authority to construct 1,645 Capehart family housing units to be financed separately.

Secretary Bryant said as of 30 June 1963 the Services will have 880,500 married male officers, upper enlisted personnel and eligible key civilians who are entitled to quarters. After subtracting Defense Department world-wide housing assets, he said there still will be a deficit of 321,233 units. He added, however, that a sizable safety factor, "approximately 175,000 units," must be preserved against possible future personnel cuts and redeployment, and in anticipation of possible increases in the private housing supply in many areas.

Promotion Status

Following are the junior officers on Army promotion lists as of 31 January:

ARMY PROMOTION LIST

Col.—Lynn W. Pine, 03032, CE.
Lt. —Barton O. Baker, 04422, OrdC.
Maj.—Thomas M. Sterling, 059855, JAGC.
Capt.—William W. Branzon, Jr., 081386, Armor.
1st Lt.—Samuel R. Hopper, 084524, Arty.
2d Lt.—Harold E. Anderson, 083323, Arty.

CHAPLAINS

Col.—David E. Kinaler, 041759.
Lt. Col.—Herman Dicker, 043154.
Maj.—Gerard J. Gefell, 063103.
Capt.—Edward J. Christop, 088621.
1st Lt.—Edward L. O'Shea, 09122.

WOMEN'S ARMY CORPS

Lt. Col.—Nellie M. Young, L325.
Maj.—Ruth A. King, L324.
Capt.—Williemae M. Oliver, L479.
1st Lt.—Anne M. Hess, L524.
2d Lt.—Joyce W. O'Clair, L572.

MEDICAL CORPS

Col.—Adam J. Rapalski, 041760.
Lt. Col.—John J. Pope, 0312214.
Maj.—Kevin G. Barry, 063478.
Capt.—Foster H. Taft, Jr., 083018.
1st Lt.—Delano M. Collins, 088633.

DENTAL CORPS

Col. Charles K. Reger, 020962.
Lt. Col.—Rupert A. Weeks, 052011.
Maj.—Robert H. West, 062985.
Capt.—Robert K. Hatchett, 088726.
1st Lt.—Marshall M. Swain, 088964.

VETERINARY CORPS

Col.—Roy A. Resegue, 029306.
Lt. Col.—Edwin J. Sunderlin, 023335.
Maj.—Paul D. Lampru, 034818.
Capt.—Robert J. Warne, 084819.
1st Lt.—George F. Orthey, Jr., 088465.

MEDICAL SERVICE CORPS

Col.—Gene Quinn, 030839.
Lt. Col.—Murray F. Evans, 031296.
Maj.—Charles T. Tsakonas, 084809.
Capt.—Thomas G. Seabourne, 084801.
1st Lt.—Charles L. Stowe, 085107.
2d Lt.—Doris C. Goodman, 088700.

ARMY NURSE CORPS

Col.—Ruby G. Bradley, N87.
Lt. Col.—Luelle B. Willys, N340.
Maj.—Mary K. Hehn, N2822.
Capt.—Mary D. Lyons, N2756.
1st Lt.—Elizabeth A. Sandness, N2954.
2d Lt.—Marbeth G. Michael, N2963.

ARMY MEDICAL SPECIALIST CORPS

Lt. Col.—Elizabeth J. Davies, M101C2.
Maj.—Mary J. Torp, M10113.
Capt.—Nancy L. Matthews, M10170.
1st Lt.—Eunice R. Dobbs, M10182.

New Captains Listed

In Army Orders 30

Forty-one Army lieutenants have been promoted to temporary captain in S. O. 30, with rank from 11 February.

Those promoted include lieutenants through sequence numbers 138, Army Promotion List, and 4, WAC list in Circular 624-64, dated 19 August 1959.

Agnew, J. B., Arty
Breedlove, E. E., WAC
Brown, O. H., Jr., SigrC
Caranikas, C. C., Arty
Collins, E. D., Arty
Combs, D. L., Arty
Cooper, J. H., Arty
Dimond, K. R., CE
Earl, G. L., Arty
Edmond, P. J., Jr., Inf
Finney, D. E., TC
Fish, W. T., Arty
Gayhart, J. R., Jr., CE
Goodwin, J. E., Arty
Gregg, F. P., OrdC
Hawkes, M. V., Inf
Henault, S. W., TC
Hooper, J. L., Arty
Humphrey, J. B., OrdC
Jackson, A. R., SigrC
Kormos, J. A., SigC
Krugh, R. C., SigC
Masiakow, V. W., MPC
McLendon, W. E., CE
McNabb, M. G., MPC
McPherson, R. G., Arty
Melvin, F. B., SigC
Merrill, N. W., Inf
Metcalf, G. R., OrdC
Nelson, C. H., Jr., Arty
Osbourne, R. E. L., Arty
Parks, R. M., Jr., Arty
Raymond, J. B., CE
Rosenblum, S., Inf
Seay, T. D., Jr., Inf
Terrell, E. D., Jr., Inf
Tucker, J. H., OrdC
Tyler, J. R., Arty
Wheeler, R. S., Arty
Wood, J. L., Inf
Wouters, L., OrdC

RETIRED TEACH

Three retired officers are on the faculty of Northeastern University. They are Col. Harry N. Hard sog, Assistant Professor of Physics, USAR-Ret.; Cdr. Horace L. de Rivera, Assistant Professor of Mathematics, USN-Ret.; and Cdr. Richard F. ArmKnecht, Associate Professor of Civil Engineering, USN-Ret. All hold master's degrees in their fields.

Army "Best Fitted" Of All Services For Certain Space Missions, CofS Lemnitzer Says

From page 5—

support of the national space program. As another example, the Army is supporting the NASA Mercury program with a number of Redstone vehicles for the first manned ballistic flight into space.

(d) **Future developments:** In addition to space systems for which the Army now seeks responsibility (discussed below), the Army desires to participate in space research and development in anticipation of future requirements. This view is consistent with the concept expressed above that development of space exceeds the capacity of any single military service, and that automatic extrapolation into space of present service-assigned roles and missions is not meaningful.

3. **With respect to specific space systems,** at this time the Army seeks funds and development responsibility for communication satellites, mapping and geodesy satellites, a space surveillance system, and an antisatellite defense system. Other services may well participate in development and support of these systems but the Army believes it is best fitted for the overall responsibility.

4. **Communication satellites will greatly increase** the security, capacity, and reliability of our vital worldwide Army command and administrative net which serves many agencies in addition to the Army. Proper performance of the Army's mission of providing mapping and geodetic service to all military services demands Army exploitation of space technology to this end. In keeping with its air defense mission and its assigned responsibility for the development of the NIKE-ZEUS, the Army is also concerned with the detection, identification, location, and destruction of hostile space vehicles as well as missiles. The worldwide space surveillance and control system is another area in which the Army has both competence and a particular interest by virtue of its earth-based missile and space surveillance experience and its existing communications networks.

5. **The above discussion of space systems logically leads to the problem of** their effective coordination and control, first in development, and subsequently in operations. At this stage DoD is in process of transferring specific systems from ARPA to appropriate military departments for further development toward operational systems. An immediate problem today is a need for close coordination of the expensive support facilities, such as launching sites, missile ranges, detection and tracking facilities and recovery means. In the Army's view, the establishment of a joint military organization is the reasonable answer. Eventually, expansion of this joint organization into a unified space command for control of operational systems would probably be appropriate as the level of operational activities increased sufficiently to warrant it.

2. How important is the Army's knowledge of space to the defense of this country?

General Lemnitzer. 1. As a basic frame of reference in answering this question, it should be recognized that at this time the military utilization of space is necessarily conjectural in many respects. Military applications in support of earth operations can be readily foreseen; space itself as a military arena is subject to future developments (not necessarily under our control); military operations on other astral masses are most conjectural of all, though in this explosive age of technology they cannot be dismissed as being fantastic.

2. **It is the Army view** that the military exploration of space is a project of tremendous magnitude, exceeding the capabilities of any single military service. Further the automatic extrapolation into space of present earth missions of the services is not meaningful. Accordingly, military exploitation of space should be a unified military effort under a joint military organization.

3. So far as the Army's knowledge of space can contribute to the national defense, this question may be appropriately considered in two aspects: (a) the Army's

present knowledgeability, and (b), future requirements.

(a) **Present knowledgeability:**

(1) The Army's general, widespread competence in research contributing to space effort will be outlined below. A specific competence of the Army unique in the free world has been the Dr. von Braun team of rocket and space scientists. Subject to congressional approval, the services of this team will be transferred from the Army and DoD to NASA. The success of this group in the free world space effort is well known.

(2) **In the past the Army has given tangible evidence of its competence and knowledgeability in space activities** by an impressive list of "firsts." It was first in the free world in penetration into outer space, development of large multiple stage missiles, successful reentry and recovery of nose cones, including those with live primates. The Army put up the first free world satellite, the first lunar probe, the first sun-orbiting satellite, and designed and operated the first communication satellite, Project Score. The first detailed topographic map of the moon is now being prepared by the Army, and in the future, under the auspices of NASA, the Army will launch the first man into space with its REDSTONE missile.

(3) **The Army has additional competence in space technology.** It owns and operates approximately \$1 billion worth of research and development facilities. The research and development resources of the Army include approximately 40,000 personnel, a high percentage of which are scientific and engineering personnel. These personnel and facilities are supported during the current fiscal year by a three-quarters of a billion dollars effort from industry and private institutions.

(a) Current research with space applications includes the fields of electronics, propellants, heat rejection, space intercept systems, biomedicine, and ballistic missile defense. The first man in space under NASA's Project MERCURY is planned for the U. S. Army in a modified REDSTONE missile.

(b) Army efforts in electronics have resulted in some of the most advanced space surveillance systems the Nation has. The Signal Corps is now conducting a number of satellite and satellite systems programs for the Army, for NASA, and for the Advanced Research Projects Agency (ARPA).

(c) The Corps of Engineers is especially experienced in constructing missile bases, launching and space tracking sites, and simulated environment facilities.

(d) The Army Map Service is making the first real topographic map of the moon. Geodesy and selenodesy, which are the sciences of topography, shape, and size of the earth and moon respectively, are specialties of this Service.

(e) The Army Medical Service has responsibility for the biomedical aspects of Army missile programs, and has responsibility for the psychological aspects of NASA's Project MERCURY. The Army Quartermaster Corps is engaged in the development of nonperishable food pastes and tablets for consumption under zero gravity conditions, the utilization of algae for food production and oxygen regeneration, studies of the effects of confinement, and development of special clothing, shelters, and handling equipment. The Army Transportation Corps is supporting national missile and space programs in managing the movement of personnel and material, and in developing techniques for handling and moving missiles, space vehicles, and ground support equipment. The Army Chemical Corps is presently engaged in work in radiation dose and spectrum measurements, shielding requirements, nuclear weapons effects, chemical oxygen production, toxicity studies, and other activities relating to the protection of man from biological, chemical, and radiological hazards.

(b) **Army's future requirements in space knowledge:**

(1) It bears repeating that the Army views space as a new, the fourth, environment, with unique characteristics of which no one, let alone any single military service, has any adequate experience. No facile extrapolations are meaningful: as discussed in answer to a previous question, a superficial earth-based consideration of who should have military primacy on the airless, waterless moon indicates what dilemmas would derive from too simple analogies. Further, the exploration and exploitation of this uniquely vast as well as uniquely new environment will demand the maximum contribution of every available national resource, industrial, scientific, and political as well as military.

(2) In this light, the Army considers that its already varied and competent capabilities should be supported and exploited for the future contributions they can make to this great demand. It is the American way to encourage simultaneous research and invention, with the constructive idea that multiple free approaches are productive above and beyond their duplication of effort. The great demand of space technology requires such an approach.

(3) Accordingly, the Army seeks support for continuation of its knowledge in this unique area, space, and equitable participation and support in space operations. In view of the magnitude of effort required for a successful national space program, in which defense requirements are assumed as discussed above, the present and attainable knowledge of the Army are considered essential.

3. Is space vitally important in military communications systems?

General Lemnitzer. Space is vital to military communications because the use of communications satellites provides a new dimension in reliability and capacity to global communications. The military global communication network is the

media through which vital information flows from remote areas of the world to the Secretary of Defense and through which he exercises strategic command and control of the unified and specified commands. Reliability of this network is essential to national defense. Through the use of communication satellites, reliability is gained by the use of microwaves for vital intercontinental circuits. We are presently dependent on high frequency radio systems susceptible to degradation by unfavorable atmospheric conditions and vulnerable undersea cables.

Even if adequate capacity were possible, the shortcomings of current links in intercontinental trunks are serious. Only a small portion of the radio-frequency spectrum can be successfully used for ionospheric relay and intrinsic bandwidth limitations result in limited capacity to the system. It is possible for hostile jamming transmitters to completely disrupt virtually all circuits. High frequency systems are therefore not always reliable. Cables are extremely vulnerable to disruption and require long leadtimes to establish communications to a new area. The National Security Council, in recognition of the threat of loss of communications has directed that all possible means of reducing vulnerability of communications be explored.

National survival would be jeopardized by an inadequate worldwide communication capability. Any measures which offer promise of alleviating this serious problem must be exploited as a matter of urgency. The use of satellites will result in greatly improved and reliable communications with rapid delivery of messages.

4. What provision has been made for Army utilization of space in its communication system?

(The information is classified and will be submitted separately.)

5. Are you satisfied with the progress being made by the Army in development of equipment for mapping and geodetic survey work from space vehicles?

(The information is classified and will be submitted separately.)

STUDY NEW DESIGN CONCEPTS:

Army Sparks Aviation Build-Up To Ease Airlift Gap; Hits DoD Restrictions

IN a move to ease its airlift requirements, the Army has launched a buildup of 42 aviation companies to increase ground-troop mobility.

General Lyman L. Lemnitzer, who disclosed the plans in Capitol Hill testimony, said current Army planning envisions the 42-company force "for this purpose by the end of fiscal year 1965."

The Chief of Staff also stated that Defense Department weight restrictions on Army aircraft have "inhibited" research and development efforts.

Representative Robert L. F. Sikes (D-Fla.), charging that the Air Force "is not capable of meeting the Army's requirements for tactical airlift," asked General Lemnitzer what the Army is "doing on its own to fill the gap?"

General Lemnitzer noted that current Defense Department policy restricts the Army's airlift effort to the combat zone. He said, "The function of airlift within the combat zone includes the movement of units to execute small-scale air-land operations, the movement of reserves, and the shifting or relocation of units or individuals within the combat zone as the situation may dictate."

"It does not, however, include the execution of joint airborne operations. There are tremendous possibilities in the use of aircraft to increase substantially the mobility of ground troops, not only in the rear areas but in the area of contact with the enemy."

"This type of mobility is essential in modern warfare, either nuclear or non-nuclear," he said, "and current Army planning envisions 42 aviation companies for this purpose by the end of fiscal year 1965."

The Army Chief of Staff said the de Havilland Caribou and the Vertol Chi-

nook both give the Army "greater capability in this function." He said the two aircraft complement each other "and offer the Army extended versatility to perform many of its vital missions."

General Lemnitzer said the Army "has put a special study requirement to industry asking for design concepts that may offer additional capability in this area." These concepts will be reviewed this spring, he said.

While the Army "is moving to fill part of the gap in its airlift requirements where authorized," General Lemnitzer said, "it is expressly forbidden to program for airlift beyond the combat zone, and must receive DoD exception for any fixed-wing aircraft (such as the Caribou) with an empty weight in excess of 5,000 pounds."

Even though there have been two exceptions to this restriction, he said, "these limitations have inhibited efforts in research and development."

He also told the House Military Appropriations Subcommittee that "Any arbitrary definition of the 'combat zone' which restricts the operation and employment of equipment is objectionable in principle."

Chaplain Schoech Arrives At Ft. Leonard Wood

Chaplain (Lt. Col.) Oscar W. Schoech has arrived at Ft. Leonard Wood, Mo., from Verdun, France, for duty as Post Chaplain.

He replaces Chaplain (Lt. Col.) Albert J. Chadelaine, assigned as Assistant Post Chaplain.

Chaplain Schoech and his wife, Susan, have a son, Howard, who is a navigator with the Air Force at Whiteman AFB,

SERVICE FAMILY NOTES

Family Editor
Louise B. McGiffertAssociate Family Editor
Bertie Johnson

Missile Wives



MRS. John S. Mills, (left) and Mrs. Ben L. Funk, (right) were honored by the Norton AFB, Calif. Officers' Wives' Club at a recent tea. Mrs. Douglas Cairns is President of the Norton OWC. Mrs. Mills' husband, Major General Mills, retired from the Air Force 31 January. Mrs. Funk's husband, Major General Funk, succeeds General Mills as Commander of the San Bernardino Air Materiel Area (AMC), which has a major responsibility for ballistic missile support activities.

Club Notes

The North Virginia Chapter, Daughters of the U.S. Army will hold a coffee at the Arlington Hall Club, 10 am on Wednesday, 24 February. Reservations may be made by calling Mrs. H. E. Gould, at JE 2-7932.

Featuring an exhibit of oils, watercolors, charcoal and pastels of talented Club members and their families, the Bolling AFB Officers' Wives' Club luncheon was held 4 February. Interesting prizes in the form of U.S. bonds, gift certificates and prizes from many local shops were awarded in several categories and judges were Mrs. Margaret Farmer, a well-known area artist and teacher, and M/Sgt. Lester Bounds of Andrews AFB, also a recognized artist and teacher.

Among the oil paintings shown were several by Mrs. Curtis LeMay, wife of the Vice Chief of Staff of the Air Force, one of which, "Ocean Spray," won third place in the Adult Oil Group. First place went to Mrs. E. F. Burke's "Trees," and second to Mrs. A. D. Baker for one she called "Leaves."

In the Adults' Miscellaneous Category, a water color, "Pool," by Albert Norway, Jr., 19-year-old son of Captain and Mrs. Norway, placed first; second spot in this group went to Maj. A. M. Carlson for his charcoal, "Man," and third to Mrs. T. P. Williams for a watercolor entitled "London."

In the Children's Category, the entry of Susan Pardue, daughter of Col. and Mrs. L. S. Pardue, took top honors; a watercolor by Albert Norway at age nine, placed second, and third was Ginger Eberhart, daughter of Col. and Mrs. F. C. Eberhart.

The Deputy Chief of Staff for Logistics Woman's Club will hold its regular monthly luncheon on 23 February at the Army-Navy Country Club at noon. Mrs. John Hinrichs, wife of the Chief of Ordnance, and Mrs. Marshall Stubbs, wife of the Chief Chemical Officer, will be guests of honor.

Mrs. Lyle E. Seeman and the ladies of the Installation Directorate will be hostesses for the day.

Ladies of the Office of the Deputy CofS for Personnel will have their monthly luncheon at the Army-Navy Country Club 24 February, when the honor guests will be Mesdames Hugh M. Milton, II, wife of the Under Secretary of the Army; Dewey Short, wife of the Assistant Sec-

Tinker Teens Aid
Holy Child School

The Tinker AFB, Okla., Teen Club, has presented a check for \$100 to Reverend Mother Celine, Director of the Holy Child School for Exceptional Children.

In an informal ceremony in the office of Maj. Gen. T. P. Gerrity, Oklahoma City Air Materiel Area Commander, Joe Evertt, son of M/Sgt Lawrence W. Evertt, 746th Aircraft Warning Squadron, Oklahoma City Air Defense Sector and new President of the Teen Club, presented the check to Mother Celine. The gift represented proceeds from a rummage sale held by the club at their clubhouse on the base.

Secretary of the Army; Hayden L. Boatner, wife of the Provost Marshal General; Frank A. Tobey, wife of the Chief of Chaplains; and R. H. Willey, wife of Administrative Assistant to the Secretary of the Army.

There will be a talk on Russian education by Dr. Oliver J. Caldwell, Assistant Commissioner for International Education in the Department of Health, Education and Welfare.

Hostesses for the occasion are Mesdames R. L. Walton, O. M. Barsanti and W. J. McDonnell.

The Brooke General Hospital Women's Club held its monthly luncheon 4 February at the Ft. Sam Houston Officers' Open Mess. Lt. Col. John A. Jenicek, Chief, Anesthesia and Operative Service, Brooke General Hospital, was the speaker on the subject of "Mouth-to-Mouth Resuscitation."

Hostesses for the luncheon were wives of officers of the Dermatology, Orthopedics, and Anesthesiology Services, with Mesdames George Prazak, Harold McBurney, and John Jenicek as co-chairmen.

Service Daughters
Make Dean's List

The dean's list for the first semester of the academic year at Mary Washington College of the University of Virginia contains the names of 92 students who maintained an average of "B plus" or better with no grade below a "C."

Among those receiving this scholastic recognition and their parents are:

Mary Lynne Williams—Lt. Gen. & Mrs. Edward T. Williams, Ft. Sam Houston, Texas.

Jean Tracy Ryan—Brig. Gen. & Mrs. William R. Ryan, Nurnberg, Germany.

Gail Elizabeth Pickard—Col. & Mrs. O. J. Pickard, N. Springfield, Va.

Margaret Garland Rawlings—Lt. Col. & Mrs. J. G. Rawlings, Arlington, Va.

USN

Margaret Jean Clark—Capt. & Mrs. William V. Clark, Naval Weapons Plant, Washington, D. C.

Maxine Clifford Foster—Capt. & Mrs. Clifford S. Foster, Jr., Arlington, Va., an all "A" student.

Sarah Jane Groseclose—Capt. (Ret.) & Mrs. Samuel K. Groseclose, Annapolis, Md.

Juliet Denney Miner—Capt. & Mrs. John O. Miner, Falls Church, Va.

Marriage Vows Renewed

Mr. and Mrs. John Leidenheimer of Herrin, Ill., parents of Col. John L. Leidenheimer, USA, of Springfield, Va., Chief, Army Signal Aviation, Office Chief Signal Officer, Washington, D. C., and of Lt. Col. Larry H. Leidenheimer, Commander, 2d Training Regt., Ft. Leonard Wood, Mo., celebrated their 50th wedding anniversary 1 February by renewing their marriage vows. The service at Our Lady of Mt. Carmel Catholic Church, Herrin, was followed by a dinner for the Leidenheimer family of four children and nine grandchildren, served by the ladies of the Parish.

Air Force Leads The Family Field;
Most Navy Enlisted Men Are Single

AIR Force families grow the fastest and Navy-Marine Corps families the slowest.

The Army is in between.

In a new compilation, the Defense Department reports that 62% of all male Air Force members, 49.8% of Army men, and 42.4% of Navy and Marine Corps male personnel are married.

Officers are more likely to be married than enlisted men. The top marital rate (87.7%) is found among Air Force officers. The percentage of married officers in the Army and Navy-Marine Corps is 87.1 and 76.6 respectively.

Lowest marital rate (38.3% married) is found among Navy enlisted men. The Army has 45.0% married men in its enlisted ranks, with 57.2% of enlisted Air Force men married.

Army and Air Force officers are tied in the number of children per

family—each has an average of 1.99. Navy and Marine Corps families have an average of 1.83 children.

In children per family, Navy enlisted men take last place with an average of 1.52, followed by 1.59 children for the average Army enlisted family and 1.63 children for the average Air Force enlisted family.

The Navy, with a total of 847,279 wives and children, is the only Service to have less than a million family members. There are 1,133,789 wives and children in Army families and 1,376,959 in the Air Force.

Air Force enlisted men have more family members (1,041,791) than any other Service group. They are followed by Army enlisted men with 881,752 wives and children, Navy-Marine Corps enlisted men with 669,737, Air Force officers with 335,168, Army officers with 252,037, and Navy-Marine Corps officers who have a total of 177,542 wives and children.

Mrs. Blandford Elected, Mrs. Lansford Presides; Carlisle Wives Have Global Fare

Ft. Lewis, Wash.—Mrs. William O. Blandford is the new President of the Women of the Post Chapel. She is the wife of Brig. Gen. Blandford, Assistant 4th Infantry Division Commander.

Mrs. Dillon Fisher is Vice President; Mrs. John Voetsch, Corresponding Secretary, and Mrs. Charles Tuttle, Secretary-Treasurer.

Ft. Belvoir, Va.—Members of the Officers' Wives Club viewed the latest in Spring fashions at a tea last week. Mrs. Velma Lansford, wife of Col. E. O. Lansford, Commanding Officer, Davison Army Airfield, presided. Attired in authentic gypsy costumes, wives of officers attached to Davison Airfield served as hostesses.

The Gypsy theme was reflected in the Potomac Room, which was transformed into a stylized gypsy camp under the direction of Mr. Rene Andrews.

Rocky Mountain Arsenal, Denver—Valentines, furs and hats were featured at the monthly luncheon meeting of the Officers' Wives Club. Hostesses were Mesdames John Lund, Charles McCanless and Edward Scott.

A showing of furs and hats was arranged by Mrs. Maurice D. Gaon, program chairman. Models were Mesdames Robert Bodine, John Lund, L. M. Delling, George Lidke and William Hall.

Carlisle Barracks, Pa.—Members of the Officers' Wives Club were treated to a luncheon of foreign foods 9 February by the Antique and Home Decorations Group. Included were foods from nine foreign countries, served by hostesses wearing costumes native to the countries in which the recipes originated.

Mrs. Richard J. Long, Chairman of the Group, was assisted by Mrs. Wilson R. Reed, and a cookbook, edited by Mrs. Rex R. Sage, containing recipes of the exotic foods served, was distributed to the guests attending the luncheon.

Mrs. Fred H. Cantrell, hostess chairman, was assisted by Mesdames Hugh F. Queenin, John M. Kinzer, Bernard W. Rogers, Charles F. Coffey, William T. Supulski, Norman M. Locksley, Walter J. Rozamus, Charles L. Tyler and Albert E. Milloy.

Picatinny Arsenal, N. J.—The Officers' Wives Club honored the wife of the new Commanding Officer of the Arsenal, Mrs. R. R. Clandemann, at a tea 10 February at which other newcomers also were welcomed. The latter included Mesdames J. R. Boisvert, C. D. Young, M. Morris, H. S. Taylor, K. C. Kirby and J. L. Kengla. Hostesses were Mrs. C. M. Stratton, Club President, and Board members Mesdames

W. K. Ghormley, C. F. Buck, W. J. Doyle, S. S. Post, R. M. French and C. Brinkpeter.

Pouring at the tea table were Mesdames J. W. Schroder, F. G. Pratt, A. J. Weinnig, W. C. Ohl, M. A. Shadday, L. Jones, M. L. Padalino, T. F. Parsons, J. D. Meglen and J. J. Slater.

Honor Mrs. Parker



MRS. Clyde B. Parker, (center) sponsor of the Friday night hostess group at the Officers' Service Club Washington, was presented recently with an Honorary Life Membership in the Club by Col. Carl Schaad, USA, Club President, (right), while Mr. Harold Wells, Vice President, looks on. Mrs. Parker received a sterling silver membership card and a framed certificate.

The award was made by the Club Board of Directors in recognition of the "outstanding services" she has rendered the Officers' Service Club since it began in October 1942.

Hostesses at the original dances were mainly daughters of officers of all branches of the Service, under the sponsorship of Mrs. Parker, wife and daughter of Regular Army officers.

Now located at 21st and R Sts., N. W., Washington, the Club is a full-time organization with dances held every evening, plus Saturday and Sunday afternoon tea dances. The hostess organization has been greatly expanded, with the Friday evening group still composed largely of daughters of officers. The Club is a non-profit organization whose membership is limited to active, Reserve and former officers of the U. S. military Services.

Service Weddings and Engagements

20 Feb. 1960 (Vol. 97, P. 693)

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MRS. Doris B. Cairns of Alexandria, Va., widow of Maj. Gen. Borgardus S. Cairns, (USMA '32), and Lt. Col. Mansell A. Walker, USA, were married 25 January at Grace Episcopal Church, Alexandria.

Colonel Walker is in the Office of the Deputy CoS for Operations at the Pentagon. Following a wedding trip, he and his bride will be at home at 305 Kentucky Ave., Alexandria.

VAN EYNDE-CURBO — Col. (USAF) and Mrs. Andrew J. Curbo, Jr., of Bolling AFB, D. C., announce the engagement of

their daughter, Beverly Jill, to Lt. Donald Frank Van Eynde, son of Mr. and Mrs. Frank Van Eynde of River Grove, Ill.

Miss Curbo attended Le Grand Verger, Lausanne, Switzerland, and is now a student at Michigan State University. Her

fiance, a graduate of Michigan State, is attending the Infantry Officers Course at Ft. Benning, Ga.

A June wedding is planned.

PEARSON-LINDSEY — In the Walter Reed Memorial Chapel, Washington, D. C., 13 February, Miss Anne Tucker Lindsey, daughter of Col. (USA-Ret.) and Mrs. Julian Brester Lindsey of Washington, became the bride of Mr. Harold Robert Pearson, son of Mr. and Mrs. Harold Edwin Pearson of Chicago, Ill.

Mrs. Everett Covington of Charlottesville, Va., was matron of honor for the bride, who chose as her other attendants Mrs. Joseph Ryan, Misses Susan Symons and Sheila C. McGuire. Mr. Kenneth Pearson was best man for his brother.

Mrs. Pearson is an alumna of Stephens College, where she majored in Music. Her husband, who attended Syracuse University and is a graduate of the Officers Candidate School at Ft. Benning, Ga., completed his military service last Fall. He is now with the Wilding Picture Corporation, Chicago, where, following a Florida wedding trip, the couple will make their home.

BACON-O'NEIL — Miss Ann Lovice O'Neil, is the daughter of Mr. and Mrs. Walter P. O'Neil, Elizabeth, N. J., whose engagement to Cadet Carlton Elbridge Bacon, USMA, son of Col. and Mrs. Elbridge Bacon of Ft. Huachuca, Ariz., appeared in THE JOURNAL of 6 February.

Miss O'Neil, a graduate of the Benedictine Academy, Elizabeth, and of the Georgian Court College, is now on the faculty of the John Marshall School in Elizabeth. Her fiance, who attended Rutgers University before entering the Military Academy, is a second classman.

Marshall School in Elizabeth. Her fiance, who attended Rutgers University before entering the Military Academy, is a second classman.

McCAGE-SHAUGHNESSEY — Our Lady of Fatima Catholic Church, Albuquerque, N. Mex., 6 February provided the setting for the afternoon ceremony uniting in marriage Miss Ann Nadine Shaughnessey and Mr. Travis Ray McCage. The bride is the daughter of Col. (USA) and Mrs. Leo W. H. Shaughnessey of 905 Solano Dr., N.E., Albuquerque, and the bridegroom is the son of the late Mr. and Mrs. Samuel Vivian McCage of Crawford, Texas.

Given in marriage by her father, the bride was attended by Mrs. James B. Glasscock, Jr., as matron of honor, with Miss Anne Hicks as maid of honor, Miss Carol Ann Giannini as bridesmaid and little Miss Debra G. Fleming as flower girl.

Mr. John Wall was best man and ushers were Messrs. E. D. Fleming, Thomas Reddin and Thomas Shepherd, with Michael M. Shaughnessey, the bride's young brother, as junior usher.

Mrs. McCage is an alumna of Marymount College and the University of New Mexico. Her husband, a graduate of the University of Texas, who served during his military service with the Field Command of the Armed Forces Special Weapons Project at Sandia Base, N. Mex., is now employed with Seismic Explorations, Inc., at Monticello, Utah, as geologist.

HUNTER-WALLACE — Miss Patricia Jean Wallace, daughter of Ldr. (USN-Ret) and Mrs. Clarke Allison Wallace of Ilwaco, Wash., was married recently to Cpl. Philip Nelson Hunter, USMC, son of Mr. and Mrs. Hartford Hunter of So. Portland, Me., at the Post Chapel, Ft. Holabird, Md.

Given in marriage by Sgt. Alfred Mooney, the bride was attended by Miss Maria Valdez, Lt. James Moore was best man.

Mrs. Hunter is a member of the WAC, serving at the Holabird Photographic Laboratory as a technician.

OLANDER-REED — Col. (USAF) and Mrs. Elliott H. Reed of Naha AB, Okinawa, have announced the engagement of their daughter, Suzanne Ilah, to Lt. William E. Olander, USAF, son of Mr. and Mrs. Henry A. Coers of San Antonio, Texas.

Miss Reed, whose father commands Naha, was graduated last year from the Kubasaki School, Okinawa. Her fiance, assigned to the 25th Fighter Interceptor Squadron, Okinawa, attended Texas A&M College and San Antonio College.

The wedding is planned for 10 April at Naha.

The Army Comptroller Wives' Club will meet Wednesday, 24 February, at the Ft. McNair Officers' Club, for luncheon, with the wives of the Office of the Director of Accounting as hostesses, and Mrs. A. E. R. Howarth as chairman.

Mrs. Robert W. Colglazier, Jr., wife of the Army Deputy CoS for Logistics, and Mrs. Gerald E. Galloway, wife of the CG of Ft. Belvoir, Va., will be guests of honor.

A spring fashion show will be presented.

Mrs. Schomburg Greeted At Redstone

More than 200 ladies attended a brunch last week of the Redstone Arsenal, Ala., Officers Wives Club to welcome Mrs. August Schomburg, wife of Major General Schomburg, new CG of the Army Ordnance Missile Command.

Guests were greeted by Mrs. W. F. Kaiser, President of the Wives Club, and Mrs. Schomburg. Among the guests was Mrs. John Sparkman, wife of Senator John Sparkman of Huntsville.

Hostesses were Mesdames Philip Constance, A. Y. Harper, C. R. Blaha, G. D. Tate, J. B. Levaas, Otto Grummt, Robert Johnson, Orlando Garcia, B. I. Hill R. O. Lehman, and R. L. Butt.

Mrs. Roy L. Chatham and Mrs. R. L. Crossman served as co-chairman for the event assisted by Mesdames E. E. Jungerman, R. E. Neunlist, J. G. Stanley and A. L. Schumacher, reservations; James Lynn, publicity; W. E. Andruss, S. C. Holmes, M. W. Ashley, W. T. Wilson and Jack Swearingen, decorations.

Retired Notes

Lt. Gen. Blackshear M. Bryan, USA, retires 29 February as First Army CG at Governors Island, N. Y., and next month will become President of Nassau Community College in Mineola, Long Island, N. Y.

Brig. Gen. Lester W. Light, USAF-Ret. Deputy CoS, Materiel for MATS Headquarters received the DSM from Lt. Gen. William H. Turner, MATS Commander, at recent Scott AFB, Ill., retirement ceremonies.

General and Mrs. Light, the former Mabel H. Kleselman, will make their home in Washington, D. C.

Col. William S. Pritchard USAR-Ret., 3518 Lenox Road Birmingham, Ala., has been reappointed to a fourth term as Civilian Aide to the Secretary of the Army for Alabama.

Brig. Gen. G. F. McGuire, USAF-Ret., former Commander of the 323d Air Division at Travis AFB, Calif., who logged over 7,800 hours in more than 50 types of aircraft, will live in Atherton, Calif., with his wife, Virginia, and their children, Tommy and Louise.

Lt. Col. Raymond A. Heath, USA-Ret., former Billeting Officer at Ft. Eustis, Va., plans to make his home in High Top Colony at Black Mountain, N. C.

Colonel Heath was married in 1940 to the former Miss Frances Barnwell of Burlington, N. C. They have three children.

Service Folk

Mrs. Rowland D. Wolfe of Columbus, Ohio, widow of Lieutenant Colonel Wolfe, USA, is visiting her son-in-law and daughter, Capt. and Mrs. George R. Middleton, Jr., and two granddaughters, Carol Lee and Virginia Ann, at Quarters 218-B Dyer Circle, Redstone Arsenal, Ala., for a month.

First Lt. James B. Robinson, Deputy Finance and Accounting Officer of Fort Totten, N. Y., recently was sworn into the Regular Army by his father-in-law, Col. F. T. Berg, Deputy Post Commander at Totten. An interesting spectator was Lieutenant Robinson's wife, Patricia. The new DA Officer holds a Bachelor of Arts degree from Colgate University and a Master of Business Administration degree from Harvard University. He is also a graduate of the U. S. Army Finance School.

Billy Utley, 13-year-old son of Lt. Col. and Mrs. William Utley, of Bunker Hill AFB, Ind., was a first place winner in the recent All-America swim meet at Hamilton, Ontario, Canada. A holder of the National AAU swimming record for the 13-14-year group, young Utley won first place swimming the 100-yard backstroke with a record time of 1:03.9. The All-Canada record is 1:06.6 for this event.

AT 40, HE RETIRES AS LIEUTENANT COLONEL

Senior M/Sgt. Ward E. Duncan of Shaw AFB, S. C., has retired as a lieutenant colonel at the age of 40 after 20 years service.

He applied for and was granted retirement in his ROPA rank of lieutenant colonel.

Allied Van Lines Sets Safety Record in 1959

For the second consecutive year, Allied Van Lines, Inc., world's largest carrier of household goods and high value equipment, established a new record in 1959 for low accident frequency in millions of miles of driving moving vans from coast-to-coast in the United States and Canada.

The accident frequency during 1959 fell to 1.18 accidents per 1,000 miles of driving from the previous record of 1.28 in 1958. It was the third consecutive year in which the Allied safety record has improved, John Waspi, safety director announced.

During 1959, Allied Van mileage attained the record total of 78,453,000, an increase of 10 million miles over the previous year.

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Thomure, Richard F.
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Lt. William T. Bayha on 12 February became the eighth recipient of the Robert P. Patterson Memorial Award at a Pentagon ceremony. The award, which consists of an engraved automatic pistol and a check for \$250, was made by Secretary Wilber M. Brucker. Joining in the presentation ceremonies were Mrs. Patterson, widow of the former Secretary of War, and General Lyman L. Lemnitzer, CofS.

Convair Gets Contract For Advanced Terrier

Convair Division of General Dynamics Corporation has been awarded a \$25-million contract from the Bureau of Naval Weapons for additional production of advanced Terrier guided missiles.

The supersonic surface-to-air antiaircraft missiles will be produced at the Naval Industrial Reserve Ordnance Plant, operated for the Navy by Convair's Pomona, Calif., Division.

The newest version of the Terrier missile has greatly improved effectiveness against low-flying aircraft and multiple targets. It will extend the fleet's present antiaircraft capability to provide defense against surface targets and land installations, the Navy said.

The Navy's first guided missile frigate, Dewey, will be the first ship to be armed with advanced Terrier. The Dewey was commissioned at Boston Navy Yard 7 December 1959.

The nuclear-powered aircraft carrier Enterprise; two conventional carriers; three guided missile cruisers, and 19 additional guided missile frigates also will be equipped with Terrier missiles.

Eventually, the weapon will be installed in the nuclear-powered guided missile cruiser Long Beach and the nuclear-powered guided missile frigate Bainbridge. Advanced Terrier will replace the original version of the missile in existing magazines and depots.

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Goolsby, Robt P., AS
Hawkins, Robt L., Inf
Hewitt, Wm C., QMC
Hughes, Clyde E., Inf
Kratz, Francis J., CE
Laswell, Robt A., Arm

Manning, F M., Jr, CE
McLeod, Chas A., CE
Newton, C H., MPC
Reed, Carl D., TC
Rooney, John H., Arty
Seaton, V T., MPC
Sickler, Robt L., Inf
Sieber, H F., Jr, SigC
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Winkler, Robt, Inf

Republic Dayton Manager

David D. Bowe, formerly Assistant Sales Manager for military aircraft products of Aeropropulsion operations—Allison Division of General Motors Corporation, has joined Republic Aviation as Manager of the Dayton, Ohio office.

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ARMY NAVY AIR FORCE JOURNAL

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General White Warns Against "Maginot" Danger; Tells Manned Weapons Need

From page 8—

bottom end of a ballistic missile are going to pose a real psychological problem."

Although not "critical of the Army or anybody else," General White recalled that within his "time in the service, the coast artillery, which for years on end were the guardians of the approaches to our coasts . . . after a certain number of years began to lose their effectiveness simply because it was a static affair."

"This is on a very large scale comparable in my opinion to a Maginot line," he declared.

General White said it also is conceivable that nuclear weapons may be outlawed sometime in the future. In that event, he said, ICBM's will be too expensive to use as TNT-carriers, which means the bomber will have to be employed basically in its WWII role.

If atomic tests are banned, the CofS said, the U.S. will not be able to test the warhead for its ballistic missiles, whereas any weapon of "sole reliance" must be completely tested to include launch and the nuclear detonation tests at the end of the launch. "That we have not had," he said, "and that if atomic testing is forever banned, we will not have." Nuclear bombs carried by aircraft, and "presently in stock have been tested and we know will work," he said.

General White said it is essential to keep a "modern" bomber force. "About the time that the B-70 would begin to be available," he said, "the B-52, which is our latest bomber, will begin to lose its complete effectiveness."

"I don't say it will be ineffective, because there are measures such as the

Hound Dog and we hope one day the airborne ballistic missile can be put on it which will prolong its life, but nevertheless an airplane that is 10 years or more old certainly can't be called a modern weapon, particularly when you have one available or could be available to you with the vastly greater capability. So that is where we come down to the B-70."

The B-70 is the very most advanced weapon system in the bomber field that the state of the art as of now permits, and that is true for as far in advance as we can see."

General White said "the big thing about the B-70 aeronautically is that it goes through the heat barrier. We have had the sonic barrier, but when you get beyond roughly Mach 2.4, you run into another and even more serious aerodynamic phenomenon which we call the heat barrier, in which the heat and the friction over the wings and other parts of the aircraft is so high that if you don't have special materials and special construction, the airplane melts."

"Now, this is an oversimplification of the problem, but that is what I mean by the heat barrier. Once you go through it, I mean the capability of going through it, which the Mach 3 B-70 does, then you have made a major aeronautical breakthrough, because to go to Mach 4 or Mach 5 or to Mach 10 is something that is then conceivably within the state of the art."

"So if we don't build something like the B-70, we are, in my opinion, if we don't go along these lines, we are forever limited to a barrier at the speed of about Mach 2.4."

"I am sure," he concluded, "that other

nations will not stop the aeronautical development at any such artificial barrier as that."

Under further questioning, General White said "the B-70 will be able to carry air-launched ballistic missiles. We have under development now a ballistic missile which can be carried, we hope, on aircraft, and the range of this missile can be, as we see it right now, up to a thousand miles. So you can visualize that an airplane that can move at Mach 3 and

in addition to that have a hypersonic ballistic missile aboard is really a terrific weapon and one that is as nearly invulnerable, in my opinion, as any weapon can be."

The Air Force CofS also said it may be possible to use the B-70 in lieu of a first stage ballistic launcher for space satellites, and to shoot down satellites. He also said the B-70 "very likely, with certain types of nuclear reactors, could be adapted for nuclear propulsion."

MAJORITY LEADER BACKS GENERAL POWER

GENERAL Power's plea for an airborne alert has convinced the top man in the Senate.

Majority Leader Lyndon Johnson (D-Tex), who heads both the Committee on Aeronautical and Space Sciences and the Armed Services Preparedness Subcommittee, told the SAC Commander-in-Chief, in testimony released this week:

"I am convinced that that is the number one order of this Congress to provide sufficient funds to give the Strategic Air Command the money it needs to get the planes in the air for an air alert as early as possible."

Senator Johnson also serves on the Appropriations Committee, which eventually will rule on the desirability of an airborne alert.

Army Seeks 25th Infantry Manpower Boost; Would Add Group On Okinawa

THE Army has presented a plan to the JCS to add another battle group to the 25th Infantry Division in Hawaii.

The new battle group, although assigned to the 25th, would be located in Okinawa.

Secretary Wilber M. Brucker has told the House Military Appropriations Subcommittee that the 25th Division is currently 3,217 men understrength. Full division strength is 13,746 compared with the Division's current strength of 10,529.

He said the Army has a plan "now under consideration by the Joint Chiefs of Staff, which would provide the missing battle group for the 25th Division. This plan provides for stationing that battle group on Okinawa."

General Lyman L. Lemnitzer, Army CofS, testified that present Army forces in Hawaii are adequate to protect the islands but he would like to see them "brought up to full strength" to handle emergencies "elsewhere in the Pacific."

In answer to a question by Representative Phil Weaver (R-Neb.), General Lemnitzer said, "In view of the threat to Hawaii wherein we visualize only small-scale raid-type operations in future wars, I'd say our forces there are adequate. If on the other hand you are asking about the adequacy of our forces on Hawaii to reinforce our garrisons elsewhere in the Pacific or implement contingency plans, I would say they are adequate although I would like to see them brought up to full strength."

General Lemnitzer added, "Of course their adequacy to meet emergencies is dependent upon necessary airlift and sealift being readily available."

Secy. Brucker Foresees "Skeletonized" Reserve Units; 70,000-Man Cut Looms

The Administration's decision to cut National Guard and Army Reserve by 70,000 during Fiscal Year 1961 will force the Army to "skeletonize" its Reserve Forces, Army Secretary Wilber M. Brucker has told Congress.

The President's budget calls for a reduction of the Army Reserve Forces from 700,000 to 630,000 by 30 June 1961.

The Army Secretary testified before the Senate Military Appropriations Subcommittee that "the effect upon our Army National Guard and Army Reserve of the expanding Army role has been perhaps even more profound than upon the active Army."

If that is the case, Committee Chairman Dennis Chavez (D-NM) asked, why are the Reserves being "cut down?"

"That is the guideline received," Secretary Brucker said. "It was not initiated by the Army."

The Army Chief, speaking frankly, told the Committee members that he had "repeatedly recommended" a 700,000-man Reserve Force. "I have recommended it (the 700,000 strength) right along."

He told the Committee he believed that a 700,000 Reserve was needed, explaining that since the Army inaugurated the Penticton concept, the Reserve Forces have been included in the overall plan. For more than a year, he said, the Army developed plans calling for allocation of

mobilization assignments to the Reserve Forces.

"We had to change the entire structure" to make them (the Reserve Forces) conform with the "One Army" concept, he said.

At the end of a long period, he said, the plan was taken up with the Adjutants General of the States which included 27 Divisions, along with 10 Reserve Divisions. The Adjutants General concurred.

Two years ago, he reminded the Committee, Congress authorized a 700,000 force of drill-pay status officers and men. "We went forward" after consultations with the Governors of every State and the Adjutants General. The plan was approved and "went into effect." The reorganization was made in the 48 States, the Territories, and the Commonwealth of Puerto Rico.

Under the reorganization, Secretary Brucker said, the Reserve Forces "have made the best progress ever, achieving higher proficiency marks than ever in history."

If the final action taken is to reduce the Reserve Forces to 630,000, the Army Secretary said, he will be faced with several alternatives. He will be required to "skeletonize" all units; cut out whole Divisions so that those remaining will retain their Penticton structure; or resolve the problem by a combination of skeletonizing and cutting.

President Asks \$2 Billion MAP Funds; Cites Modernization Need

PRESIDENT Eisenhower, emphasizing the need to modernize and improve the forces of our Allies, has asked Congress to approve a \$2 billion Military Assistance Program for the year starting 1 July.

The Chief Executive says this "is the minimum amount consistent with the maintenance of a firm and adequate collective defense posture."

Here is the section on Military Assistance from the President's Special Message to Congress 16 February on the Mutual Security Program:

For military assistance I am requesting in the pending Department of Defense budget an appropriation of \$2,000,000,000. This is more than was requested, or than was provided for fiscal year 1960. The request for a larger appropriation is not made in order to increase the proportionate share of United States participation in the common defense. Nor does it reflect an intent to embark on a vast expansion of the military assistance program.

The amount requested for military assistance within the defense budget is in my considered judgment, and in that of the Joint Chiefs of Staff, a need for our defense equally compelling and of equal importance with the needs of our own services provided for elsewhere in the defense budget.

The amount requested is the result of careful and detailed review of the needs of our allies to enable them to maintain the level of combat effectiveness made possible by previous military assistance and to provide, mostly on a cost sharing basis, for certain essential force improvement projects. Without adequate provision for maintenance, the monies previously spent would be largely wasted. And without force improvement, without the provision of more advanced weapons, the free world forces would inevitably fall behind in their ability to counter modernized aggressor forces.

The fact, if it is a fact, of reduction in Soviet military manpower, does not alter the need for the maintenance of

our collective defense. Soviet military power, as Mr. Khrushchev's own statements make clear, remain great. Our plans have never attempted to match Soviet armed manpower; they have been and are designed to deter aggression. Of special importance is the maintenance of a strong and effective deterrent posture in the NATO alliance. As indicated earlier, the improving economic position of Western Europe as a whole makes it possible for Europe to share increasingly in the cost of the common defense, and for certain major European countries to maintain their defense efforts without United States assistance. At the same time, the requirements for modernization and improvement are of such dimension that our participation in joint cost sharing projects with certain European countries over the immediate future is still essential. Provision for such contributions is included in the proposed program.

The amount requested for fiscal 1961 is consistent with the recommendations of the bipartisan committee of distinguished citizens headed by General Draper, which I appointed last year to review our policies and programs. This committee strongly urged the maintenance of a delivery program of approximately \$2,000,000,000 annually. In recent years, annual deliveries have averaged about \$2,200,000,000. Deliveries in fiscal year 1960, however reflecting the reduced appropriations of recent years, will fall back to \$1,800,000,000 or less. Unexpended balances carried over from previous years have now been reduced to a minimum and deliveries in future years will closely approximate the annual appropriation level.

In my considered judgment, an appropriation of \$2,000,000,000 fiscal year 1961 is the minimum amount consistent with the maintenance of a firm and adequate collective defense posture. Anything less in effect precludes essential modernization and improvement of forces and limits us to bare maintenance program.

SAC Chief Appeals Again For Spot Promotion, Responsibility Pay, Alert Pay, Housing

GENERAL Thomas S. Power has made a new appeal to the Senate for stepped-up spot promotions and officer-responsibility pay for members of the Strategic Air Command.

The SAC Commander-in-Chief said his "present spot program is inadequate," and he "very definitely" needs the officer-responsibility pay approved by Congress in the 1960 Military Pay Act but not implemented by the Pentagon.

The personnel field, General Power said, "is one of the areas where we can do more for our defense posture, for our strength, than possibly in any other area."

In addition to improved spot-promotions and officer-responsibility pay, General Power urged a \$10-a-day pay supplement for his alert crews, and more family housing.

His closed-door testimony before a joint session of the Senate Preparedness and Space Committees was released this week after it had undergone heavy security censorship.

Senators were mainly interested in General Power's recommendation that SAC be permitted to establish a continuous airborne alert to protect the Nation against a surprise enemy attack.

He said such an alert would cost an estimated \$1 billion annually, and would necessitate added SAC crews. "We would have to up the number of crews," he said, "from (deleted) and we need approximately (deleted) more personnel put into this heavy force because of the tremendous workload."

He told the Senators, however, that the increase in personnel doesn't "necessarily involve an increased cost if they were provided from some place else in the already existing inventory."

The SAC Commander said an airborne alert, once instituted, could be dropped as soon as the U. S. has an adequate "warning" against ballistic missiles.

Another possibility, he said, is that "when you get into the time period of plenty—when the Minuteman comes and

"Missile Miracle" Says L/G Schriever

Countering charges that the Nation is in a "missile mess," Lt. Gen. Bernard H. Schriever, USAF, has hailed the recent developments as a "missile miracle."

The head of the Air Research and Development Command told the National Rocket Club in Washington, D. C., 17 February that during the past five and a half years the missile developments could not have been possible but for the efforts of thousands of dedicated men and women—throughout the length and breadth of the Nation who have labored round-the-clock to beat the clock."

Addressing an audience of Rocket Society members gathered at the Sheraton Park Hotel to honor the memory of missile pioneer Dr. Robert H. Goddard, General Schriever recalled that less than six years ago "the most optimistic range hoped for by our scientists was 5,500 nautical miles. Today, actual range of the Atlas ICBM is in excess of 7,000 miles."

In 1954, he reminded his audience, the "attainment of a five mile accuracy was considered a logical goal. The accuracy of the Atlas missile today is within two miles of the target."

He said he was not pointing to "a single fortuitous shot." The ARDC Chief told the Society that the two mile accuracy range "represents the statistical average achieved by 15 consecutive launches . . ."

Directing his attention to the Titan development program, General Schriever assured the Rocket Society that he "had not the slightest doubt about the soundness of the program."

"I say this because the Titan ICBM has for over three years been programmed to fill a vital role as an integral part of our deterrent force structure in the critical time period 1962-3," he said.

"Our National security demands that we press forward with the greatest urgency on both the Atlas and the Titan program," General Schriever declared.

you have missiles in great quantities, dispersed, hardened, and on mobile platforms like trains, and Polaris submarines—that you will reach an inventory of such size that it will be mathematically impossible for any aggressor to have a high confidence factor that they can destroy all of those weapons systems and thereby get a free ride or prevent them from retaliating."

Asking, rhetorically, when this time period will come, General Power told the Senators, "It depends on the actions you take."

The SAC Commander-in-Chief's plea for better pay, promotion and housing for his command came in answer to questions by Senator John Stennis (D-Miss.). Senator Stennis fathered Congressional action on the officer-responsibility pay which has not yet been utilized.

He asked General Power whether the 1958 pay act has helped SAC reenlistments.

General Power replied, "First, I would like to say that the pay bill has had a tremendous effect on our reenlistment rate, a beneficial effect. It is now up in the neighborhood of 60%. As a matter of fact, it is getting to the point where now we can stress quality rather than quantity. This was a very forward-looking program and it has had a very good effect on our overall capability."

"But, the field of personnel, I think is one of the areas where we can do more for our defense posture, for our strength, than possibly in any other area. Now I

include organization with personnel. There is a tremendous challenge to put this expensive and highly technical equipment—to put it in the hands of the right people, trained people, stable professionals, rather than a floating group of trainees who, about the time their training pays off, leave the service."

"Now I think we can attract this type and hold them. The pay bill was an enlightened action toward that end."

"There are other things we could do right now. I would like to see, and I am talking about the Strategic Air Command basically, our spot promotion program augmented."

"I would like to see the officer proficiency pay which was part of that act implemented. I would like to see alert pay for my crews that are on alert. I can't afford to have a ratio of five crews for each aircraft. I have to work these people harder. I don't expect them to be working just for the pay but I think it is an important psychological factor to recognize that what they are doing is a real inconvenient way to live, and that we appreciate it."

"I also would like to see more housing. The Capehart Act has been a very fine act, and I would like to see it implemented with vigor. I think these personnel actions would have a tremendous effect on our overall fighting capability and with fewer people, not more. What we want is quality, not necessarily quantity."

General Power's answer was followed

ALL-WEATHER THUNDERCHIEF IS TESTED

THE first all-weather Republic F-105D fighter-bomber has begun an intensive flight test program at the Air Proving Ground Center, Eglin AFB, Fla.

This coincided with completion of a 14-month test program at the APGC of the "day-model" fighter-bomber, the F-105B. At Eglin, 306 test flights were flown with the F-105B's for 234 hours, including a high of 42 flights on one aircraft, the most flights ever reached on a single test aircraft. The last of 75 F-105B's was delivered to the Air Force recently by Brig. Gen. Joseph H. Moore, Commander, Fourth Tactical Fighter Wing.

Republic test pilot Don Seaver flew the F-105D to Eglin. Maj. Kenneth L. Skeen, Project Pilot for the APGC's Directorate of Tactical Systems Test, was designated the first Air Force Pilot to fly the all-weather Thunderchief.

M/G Minton Heads Board To Survey Air Force Careers For Non-Rated Officers

(Non-Rated AF Generals, Page 32)

General Thomas D. White has appointed a board of general officers "to go very thoroughly into the whole subject of careers for nonrated officers."

Members of the board: Maj. Gen. Augustus M. Minton, President; Maj. Gen. John R. Sutherland; Maj. Gen. Sam W. Agee; Maj. Gen. William E. Eubank; Brig. Gen. Donald P. Graul; Brig. Gen. Charles E. Jung.

They have been meeting since 15 February.

In testimony before the House Military Appropriations Subcommittee, General White said: "Prior to the time that the missile squadrons were envisioned, all flying Air Force units, combat units, required a rated officer. For good reasons which I think would take too long to put in the record at this time, such commanders must be rated officers. The original regulation on the command of missile units came out and stated that they need not be rated officers, but preferably rated officers."

"I have changed that regulation within the past few months so that there is no distinction."

"In addition to that, I recently appointed a board of general officers to go very thoroughly into the whole subject of careers for nonrated officers."

His statement came following questions by Representative Keith Thomson (R-Wyo) who wanted to know, "Can a non-flying man, with no flying experience whatsoever, who is in the missile command at the present time as a colonel with 15 years of experience jump to general and command the configuration that you are going to have at Ellsworth AFB with two squadrons of bombers and one squadron of missiles?"

General White said: "He could not command a wing which includes the bombers. I think you perhaps would agree that you must have a flying officer in a unit which contains a flying organization."

Congressman Thomson said he "would not agree," and General White added:

"I will go to a level higher and say that the commander of all the missiles, the division commander, can be a nonrated officer, and I think two of the missile sites are commanded by nonrated officers."

The exchange continued as follows:

Rep. Thomson—Which of the two?

General White—I think Warren is one.

Rep. Thomson—Colonel Rader is a rated officer.

General White—He happens to be, but a nonrated officer can command the base.

Rep. Thomson—if Ellsworth comes in, could he command it and the bombers too?

General White—No, not command the bombers. That is quite true.

Rep. Thomson—He is out of business if he is not rated.

General White—A nonrated officer could replace General Wade who is the commander of the first missile division.

Further along in the testimony, General White said the Air Force is "acutely anxious to do everything we can to not only provide a top career for these officers, but give them a career all the way along the line. We must retain that type of officer."

He said the Air Force has lieutenant generals who are not rated "and I do not think that it can be said that theirs is not a career now."

by this exchange:

Senator Stennis—This spot promotion you referred to, that is to take care of a situation where a man is doing an outstanding job in whatever field it is, and unusual merit, and you want to reward him and push him up on the ladder? Does that cover the spot promotion?

General Power—That is correct. The airplane commander of a B-52G, with his hydrogen bomb load, has more firepower under his direct command than all the generals and admirals in the history of this country or in the history of the world. Now it is just impossible in tables of organization to get the proper grade for the man. I want to spot promote him. I think he should be a field grade officer and we do it in SAC. But we had the spot-promotion program put in when we only had a small number of crews—that is a relatively small number.

We have increased the number by a factor of at least four. Therefore our present spot program is inadequate. This is brought about by a variety of things. The officer grade limitation act dictates how many field grade officers we have. My spot promotions come out of the overall kitty, you might say, of the Air Force, and as that kitty dwindles down, I am in danger of losing my spot promotions rather than increasing them. I would like to see action taken so that any crew member in SAC who is qualified is in the war plan, and has a hydrogen bomb attached to him, can be spot promoted if he continues to meet our standards.

Senator Stennis—In other words, your authority for spot promotion needs to be geared more to the situation and the facts of life as these new developments come along rather than a general level approach.

General Power—That is correct.

Senator Stennis—To all services, is that right?

General Power—That is correct.

Senator Stennis—Now in that pay bill we had a special provision there for proficiency pay or responsibility pay, an added feature, where you could single out certain men. Now have you utilized that any?

General Power—We have not implemented.

Senator Stennis—Do you approve it?

General Power—I certainly approve it, heartily. I think it is a very enlightened action.

Senator Stennis—And you have not utilized it?

General Power—Not the officer responsibility pay. We have to a limited degree implemented the enlisted man proficiency pay.

Senator Stennis—Why haven't you used that in the officer pay?

General Power—I have not been authorized to do so.

Senator Stennis—In other words, the Department of Defense has withheld the exercise and does not permit you to use this?

General Power—That is correct.

Senator Stennis—But as the man that is responsible for SAC and its operations, you feel the need for this very item that I have described; is that correct?

General Power—Very definitely.

Senator Martin—Will the gentleman yield for one question?

Senator Stennis—I will be glad to yield.

Senator Martin—I would like to ask how many are involved in or would be eligible for this spot promotion that you are discussing, not the exact number but approximately?

General Power—I would want to spot promote approximately 80 per cent of my crews that I have in my inventory.

Senator Martin—That would be a permanent promotion?

General Power—Oh, no. They would get it and lose it. We promote people in SAC and bust them regularly, through no fault of theirs. For example, it happens to those who hold a spot promotion in a unit of the Strategic Air Command in which the equipment is changed from one bomber to another. The unit is out of the war plan while it is being retrained. We bust the whole outfit. They go right back to the permanent rank.

Rocket Flights, Missile Work Feature Flight Test Center Aerospace Effort

from first page

closed that plans are being developed at Edwards to revise the 32-week curriculum at the Experimental Test Flight Pilot School to give greater emphasis on problems that will be encountered in space flight, such as orbital mechanics.

Current planning for the DynaSoar project, for which the people at Edwards already are working on criteria for crew selection, envisions that this space vehicle would be launched at Cape Canaveral, Fla., orbit the earth, and then land on the mammoth dry lake at Edwards.

General Carpenter told re-

porters last week that the success that is being achieved in preliminary flights of the North American X-15, and those which will follow, "will make direct contributions to Project DynaSoar, for which we are also preparing."

"In this latter goal," said General Carpenter, "our goal is eventual orbital flight of a vehicle under the control of its pilot."

Chief Engineer Harrison Storms of North American Aviation said that all three X-15 aircraft probably will be turned over to the NASA-Air Force-Navy research-project team this summer.

NASA Assistant Director De E. Beeler said the X-15 "will be used as a research tool to gather information on temperature and vehicle control at speeds up to Mach 6—about 4000 mph, and at altitudes up to at least 50 miles. The research data obtained," said Mr. Beeler, "will be applicable not only to conventional aircraft of the future, but also in the area of manned space flight."

His forecast of flights "up to at least 50 miles" drew the particular attention of newsmen. They recalled that Deputy Secretary of Defense (then Air Force Secretary) James H. Douglas had said that the X-15 would fly at altitudes of 100 miles.

Mr. Beeler not only denied that the X-15 has this capability, but he insisted on devoting his remarks to achievements in the 50-mile altitude environment.

Another highlight of the Edwards visit was the first showing to newsmen of a

prototype underground silo being built for the Minuteman ICBM.

This was an instance where Air Force personnel were able to begin work on a missile project and then turn it over to a civilian manufacturer, in this case the Boeing Airplane Company.

General Carpenter said that at present about 40% of the effort at Edwards is devoted to missile and rocket projects.

A small group of Air Force military and civilian personnel has been organized to work on rocket propulsion problems, as part of the effort to increase "in-house" knowledge and experience. General Carpenter emphasized that the Air Force has no intention to go to any kind of an "arsenal concept," but pointed out it was essential for Air Force people "to get their hands dirty" in missile and rocket test work.

Col. Harold W. Norton heads the Flight Test Center's Rocket Propulsion and Missile Directorate, with Lt. Col. Donald J. Iddins as his Plans and Programs Chief. Maj. Rex M. Gray is the Minuteman ICBM project officer assigned to Edwards by the Air Force Ballistic Missile Division.

It seems certain that in the months immediately ahead, BMD will take on increased responsibilities for supervising activities at Edwards, which in past years largely has been responsible to what is now the Wright Air Development Division.

Looking to the future, Edwards will be the site for testing of a Rocketdyne engine of 1.5 million pounds thrust and a second test facility will be capable of handling propulsion systems with 6 million pounds thrust.

B/G Jablonsky Will Leave 82d For Korea

Brig. Gen. Harvey J. Jablonsky, Assistant Division Commander for Combat Arms of the 82d Airborne Division, Ft. Bragg, N. C., will join the Eighth Army in Korea early this summer.

Scheduled to replace General Jablonsky is Brig. Gen. Theodore J. Conway, Senior Advisor to the 1st Republic of Korea Army. He joins the 82d in July.

During his four years at West Point, General Jablonsky, USMA '34, became a nationally known football player, an All-American in 1933, and was chosen in 1933 to captain his team. Upon graduation he received the Army Athletic Association Award for the outstanding athlete in his class. He later became assistant football coach at the "Point" for 10 years.

Successful Completion Of X-15 Engine Tests Reported By Thiokol Division

The Thiokol Chemical Corporation announced 16 February at Denville, N. J., that all tests in the Pre-Flight Rating Test Program on the North American X-15 aircraft engine have been successfully completed.

This signifies that the United States now possesses a fully throttleable rocket engine for use in manned rocket flight with control exercised at the pilot's discretion, Thiokol said.

Designated the XLR-99-RM-1 liquid propellant rocket engine, the powerplant provides greater than 50,000 pounds of thrust. The engine was developed under the cognizance of the Air Force, NASA, and the Navy, by the Reaction Motors Division of Thiokol.

"Probably the most significant factor in the X-15 powerplant operation will be the safety features and concepts which provide complete assurance that the engine will operate and shut down without endangering the pilot even under conditions of a malfunction of any single component," a company announcement said.

The Reaction Motors Division has previously developed and produced rocket

engines for the Bell Rocket Power Research aircraft known as the X-1 series. For the new powerplant advanced technological problems had to be solved and new features engineered such as continuously variable thrust, start-stop-restart capability, and safety features to protect the pilot during flight.

Crucial differences exist in requirements for rocket engines for piloted flight as contrasted to engines for missile applications. The engine must operate, shut down and restart with complete safety to the pilot under foreseeable flight conditions. The thrust of the engine must be controllable over a specified range at the pilot's discretion. Also the engine must be capable of repeated use and have extended service use without major overhauls. During testing of the XLR-99, every conceivable malfunction is artificially created in the engine's system to prove complete reliability of the safety features on the powerplant.

After current flight test utilizing two XLR-11 rocket engines, also developed by Reaction Motors Division, the new, more powerful XLR-99 will be installed in the X-15 for maximum performance aeronautical research.

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U. S. MARINE CORPS ORDERS

Commandant—General David M. Shoup
Assistant Commandant—Lt. Gen. John C. Munn
Chief of Staff—Lt. Gen. Wallace M. Greene, jr.

MAJ GENERAL

Dawson, Marion L, Air FNFLant, to Difot as Sr Mbr, UN Comd, Mil Armistice Commission, Korea.

BRIG GENERAL

John, Phillip W, HqMC, to Naples, Italy.

COLONEL

Bowman, George S, jr, HqMC, to CINCPac.
LT COLONEL
Metzelaars, Charles R, MCAAS Beaufort, SC, to 1st MAW.

MAJOR

Geishecker, Edward J, 3d MAW, to AirFMF Pac.
Oderwald, Richard E, MCS, Quant, to Hq MC.
Warren, James E, Air FMFPac, to 3d MAW.
James, William C, jr, MCS, Quant, to ALUS NA & ALUSNA for Air, Taipei, Taiwan.

CAPTAIN

Bolland, George J, Yokosuka, Japan, to MCRD PI SC.

Gasparine, Louis, jr, MCS, Quant, to MCAF New River, Jacksonville, NC.

Kettering, Alvah J, 1st MAW, to MarCor OSA, Columbus, O.

Lacey, Fred E, jr, 2d MAW, to MarCor OSO, Dallas, Tex.

Martin, Charles A, S Fran, to 3d MAW.

Miller, Robert D, MartD MarT C, Grosse Ile, Mich.

Oliver, John P, 6th MCRRD, to USS Springfield.

Price, Chester W, 3d MAW, to 3d Mar Div.

Wozencraft, Clark R, 1st MAW, to MCAS, CherPt.

Coffin, James H, Long Beach, to 1st MAW.

Donabedian, Haig, 1st Mar Div, to Nav Mission, Bogota, Colombia.

Eisenhauer, Stephen S, 1st MAW, to UNC MilArm Comm, Korea.

Isbill, James B, jr, NATTC Mfs, to NavElet Lab, SDiego.

Ripley, George H, USS Valley Forge, to 98th Rife Co, USMCR, Clarksburg, WVa.

Costello, Thomas L, MCS, Quant, to MCB CamLej.

Graves, Frank E, MCAS, CherPt, to MCRD SDiego.

Hale, Edward W, MCRD SDiego, to 1st Mar Div.

Mulligan, Bernard J, 1st MCRRD, to 1st Inf Co USMCR, Burlington, Vt.

Rose, William W, MCB CamLej, to ForTrps FMFLant.

Wonhof, Alan E, NB Phila, to MCB CamLej.

Stauch, Victor D, jr, ForTrps FMFLant, to USA Engr Scol, Ft Belvoir.

Walsh, Walter V, 1st MCRRD, to 3d Mar Div.

Young, Ernest G, College Park, Md, to MCS, Quant.

Salter, Martin E, jr, 1st MAW, to MCS, Quant.

1ST LIEUTENANT

Lowrey, Bill G, ForTrps FMFLant, to Mar Det USS Valley Forge.

Gagen, John A, 2d MAW, to MarCor Crust Sta, NYk.

Hatch, Donald J, NavCommFacPhil, to For Trps FMFLant.

Hillman, William P, MCS, Quant, to MCB CamLej.

O'Brien, Robert L, MCS, Quant, to Sup Unit #3, Co "G", HqBN, HqMC, NavCommFacPhil.

Binns, Donald R, ForTrps FMFPac, to USS Springfield.

Morris, McLendon G, MCRD PI SC, to MB Wash, DC.

Ramsey, David A, 1st Mar Div, to MB Pearl.

Hotz, George E, 1st MAW, to 3d MAW.

To MCS, Quant

Carroll, Kim N, NAS, CorpC.

Kerr, Jugh T, Rota, Spain.

From 1st MAW:

Giles, William G, Huston, Harold V

To MCB CamLej

From MCS, Quant:

Alston, A A jr, Robinson, Charles G
Jackson, Robert E, Sanborn, Wesley E
Lungo, Guy A

To MCRD, PISC

From 2d Mar Div:

Appezzato, Ralph J, Hiney, Hugh E
Barrow, Blaine D, Gazda, E J, Jr
Carletti, Philip S, Grasser, T N, 3d
Conley, Arthur F, Schneider, W P
Flicker, James S, Stremlow, George J

To MAD NABTC NAS, Pncla

From 1st MAW:

Chereson, Robert S, Phillips, Lamar V
Hampton, William W, Thompson, R L
Hofheinz, Walter H

To 2d MAW

Mavretic, Josephus L, Beeville, Tex.

From 1st MAW:

Goforth, Robert K, Connor, Charles W
Makeever, Harrison A, Yanofsky, Harold
Miller, Huey P L

2D LIEUTENANT

Lewis, James L, jr, 1st MAW, to 2d MAW
Stockwell, John R, MCS, Quant, to ForTrps FMFLant.

To 1st MarBrig

From MCS, Quant:

Iversen, Kenneth M, Johnson, Robert E

To MCB CamLej

From MCS, Quant:

Arroyo, Alfred A U, Munn, Charles H
Carlieri, Carl R, Nelson, Robert F
Bowersox, Robert L, Paul, James A
Galehouse, John S, jr, Sedutto, William H
Good, David B, Veasey, Luther D
Gnerek, Ronald F, Walters, George H
Handley, James D, Walters, James R F
Kliff, Edward J, Warman, K E, Jr
Koester, Alfred K, Wolpert, Richard J
Lamar, Lewis W, Sallstrom, Duane M
Meharg, Ben A, Robertson, Frank S
Mason, Joseph E G

CHIEF WARRANT OFFICER

Overby, Richard C, HqMC, to 1st Mar Div.

WARRANT OFFICER

Willis, John, Billings, Mont, to MCB CamPen, Gleim, Earl C, 2d MAW, to MB NTC GLakes.

RETIRED

Bowen, Capt Oscar T, jr, to temp disb ret list.
Dodson, Capt Melvin C.

New Section Serves Retired Leathernecks

A new Retired Activities Section has been established in the Personnel Department at Marine Corps Headquarters.

The Marine Corps said the unit was organized to provide better service to the growing number of retired personnel.

Correspondence to the Section should be addressed to: Commandant of the Marine Corps (Code DNC), Headquarters, U. S. Marine Corps, Washington 25, D. C.

Naval Reservist Named

Martin Assistant

Herbert A. May, jr, has been appointed Assistant to President William B. Bergen of The Martin Company in Baltimore.

A native of Pittsburgh who attended the University of Virginia from 1938 until he entered the Navy in 1940, Mr. May saw action as a Reserve officer in WWII and the Korean conflict.

RCA Gets \$474.8 Million For BMEWS; Thule Station To Be Ready This Year

THE Air Force has awarded a \$474.8 million contract to Radio Corporation of America (RCA), detection system prime contractor for the Ballistic Missile Early Warning System (BMEWS). That brings the dollar total for BMEWS contracts to date to more than \$700 million.

The Western Electric Company, prime contractor for the communications system, had previously received a similar contract for \$66.7 million. Latest funds released to the Army Corps of Engineers, the BMEWS construction agency, bring the total of construction funds released

in the program to date to more than \$180 million.

Work on the system, which is designed to provide detection and early warning of attack by intercontinental ballistic missiles, is progressing on schedule. The United States Air Force, under whom the system is being developed, expects the first station, located near Thule, Greenland, to be in operation during the present calendar year.

A second station, near Clear, Alaska, is expected to be completed in 1961. Location of a third station, currently planned, has not yet been named.

PACK—Died Ft Richardson, Alaska 10 Feb Mrs Bernice Pack, 48, wife of Col Dallas B Pack, USA, who has been Commanding Officer of the Petroleum Distribution Unit at Ft Richardson, now being reassigned to Hq Sixth US Army, Presidio/San Francisco. Also survived by one son, Sp4 Howard Allen, SigC, USA, now in Germany; and one brother. Burial Golden Gate National Cemetery.

RAHT—Died 8 Feb Capt Aiolphus Graham Raht, USN, 40, member of the Jt Staff of the Jt Chiefs of Staff, Washington, DC. Survived by his widow, Mrs Mary M Raht, 2038 Columbia Pike, Arlington, Va.; and one son, Scott C E Raht. Burial Arlington National Cemetery.

ROBINSON—Died 10 Feb Lt Joel A Robinson, USN.

ROHSENBERGER—Killed 10 Feb in the abortive catapult of his F8U Crusader jet from the Mediterranean-bound aircraft carrier Franklin D Roosevelt, Lt (Jg) Carl J Rohsenberger, Jr, USN, 24. Survived by his widow, Mrs Janet S Rohsenberger, Jacksonville, Fla., daughter of Col (USA Ret) & Mrs Lawrence E Shaw, 767 26th Pl, So. Arlington, Va.; one son, Carl J Rohsenberger, III, 21 mos.; and his mother, Mrs Lorraine Rohsenberger, San Antonio, Tex.

SHAW—Died Walter Reed GH, Washington, DC 10 Feb Brig Gen George C Shaw, USA-Ret, 93, following a brief illness. Oldest holder of the Congressional Medal of Honor, he was a veteran of the Spanish-American War, the Philippine Insurrection, the Mexican Border campaign and WWI. Survived by two daughters, Mrs Elizabeth S Daley, wife of Col Edmund K Daley, USA, 976 No Quantico St, Arlington, Va., & Mrs Esther M Perkins, Garrison Forrest Rd, Owings Mills, Md.; five grandchildren & six great-grandchildren. Burial Arlington National Cemetery.

SHEFFERS—Died Georgetown University Hospital, Washington, DC 11 Feb Mrs Gladys C Sheffers, widow of Cdr Harold E Sheffers. Burial Arlington National Cemetery.

SIMITH—Killed in an automobile accident near Schilling AFB, Kans 10 Feb Maj Charles Eugene Smith, (ChC), USAF, 51. Survived by his widow, Mrs Genevieve Smith, & three children, Charles L, Sandra & Dorothy, all of Lindsborg, Kans; one sister, Mrs Dorothy W Knight, 7101 New Hampshire Ave, NW, Washington, DC; and one brother.

TAYLOR—Died Mt Alto Hospital, Washington, DC 14 Feb Col Hiram W Taylor, NG-Ret, 85. Survived by his widow, Mrs Marion Taylor, 3000 Tilden St, NW, Washington; one son, H Wilson Taylor, Jr, Yonkers, NY; and one daughter, Mrs H G Golding, Jr, Chappaqua, NY. Burial Arlington National Cemetery.

VIELE—Died 6 Feb Lt Jack S Viele, USN.

B/G Sarnoff Joins Air Univ. Board

Four new members of the Air University's Board of Visitors—one of them an Army Reserve brigadier general—have been named to three year terms by General Thomas D. White, CofS.

They are Dr. Rufus C. Harris, President, Tulane University, New Orleans, La.; Dr. Harlan H. Hatcher, President, University of Michigan, Ann Arbor, Mich.; Brig. Gen. David Sarnoff, USAR, Chairman of the board, Radio Corporation of America, New York, N. Y.; and Dr. Robert G. Sproul, President Emeritus, University of California, Berkeley.

The board of visitors, made up of top educators and business executives from throughout the nation, meets at least once annually to evaluate the management, curriculum, methods of instruction, and facilities of Air University, the professional educational center of the Air Force.

Other members of the board are: Dr. John Z. Bowers, dean of the Medical School, University of Wisconsin, Madison; Dr. Wilson H. Elkins, President, University of Maryland, College Park; General Joseph T. McNarney, USAF-Ret, La Jolla, Calif.; Dr. William E. Morgan, President, Colorado State University, Fort Collins; Dr. Robert M. Strozier, President, Florida State University, Tallahassee; and Stanley T. Wallbank, General Counsel, United American Life Insurance Co., Denver.

Avien Gets Minuteman Order

Avien, Inc. has been awarded a contract for production of an advanced type of miniaturized DC Amplifier to be used in connection with the Boeing Minuteman ICBM.

The new amplifier, believed to be one of the smallest of its type ever produced, weighs 10 ounces, and is 6.5 cubic inches in size. The unit is small enough to fit in the palm of the hand.

The initial contract order is for \$72,000. Avien officials indicated that potential figures for the DC Amplifier contract work are expected to run considerably higher.

B/G Coutts Will Join IADF; Army Tells New Posts For Other Brigadiers

Brig. Gen. James W. Coutts will be CofS, Caribbean Command, Quarry Heights, CZ, assigned as Director of the Staff, Inter-American Defense Board, Washington, D. C., 1 August.

Brig. Gen. Daniel A. O'Connor, CG, 31st Artillery Brigade (Air Defense), McChord AFB, Wash., will succeed General Coutts in June.

Brig. Gen. David W. Gray, CofS, V Army Corps, Germany, has been assigned as Chief of the Subsidiary Activities Division, J-5, Office of the JCS, in August.

Brig. Gen. Benjamin T. Harris, Chief of the Army Section Joint U.S. Military Mission for Aid to Turkey, Ankara, will

Burton Awarded AF Contracts

Two Air Force contracts totalling approximately \$100,000 have been received by the Instrument Division of Burton Manufacturing Company, Santa Monica, Calif. According to William J. Miller, Burton President, one order is a development-production contract for integrally-lit accelerometers and the other is for additional quantities of accelerometers which have been supplied to the Air Force in the past.

John J. Guerrera, General Manager of the Instrument Division, said the development-production contract is the first order of its kind placed by the Air Force. Integrally-lit accelerometers are aircraft panel instruments which indicate the number of g's of acceleration an airplane is subjected to during flight. As safety devices, they are used to monitor any possible overloads that are applied to aircraft during any particular mission.

USNA Grad Joins Fairchild Controls

Appointment of Robert Feldheim as Manager of Advertising and Sales Promotion for Fairchild Controls Corporation is announced by Tom D'Andrade, National Sales Manager.

Fairchild Controls is a wholly-owned subsidiary of Fairchild Camera and Instrument Corporation.

Mr. Feldheim a graduate of the U. S. Naval Academy, will be responsible for the sales promotion and advertising program for the subsidiary, coordinating with the corporate office of the Director of Information.

Prior to joining Fairchild, he was associated with the G. M. Basford Company, New York advertising agency.

Pershing Signal Modules

Southwestern Industrial Electronics Company, a division of Dresser Industries, Inc., 10201 Westheimer Road, Houston, has been awarded a contract by the Martin Company, Orlando, Fla., to build 240 signal conditioning modules for the Pershing Missile. The modules feature SIE's latest advancements in solid-state circuitry and plug-in packaging design.

20 Feb. 1960 (Vol. 97, P. 699)

Army Navy Air Force Journal 31

Missile-Space Action In The Services

AF BALLISTIC MISSILE STORAGE—The San Bernardino Air Materiel Area at Norton AFB, Calif., now under command of Maj. Gen. Ben I. Funk, former head of the Air Materiel Command Ballistic Missile Center at Inglewood, Calif., has become the first Air Force depot to begin storage and maintenance of ballistic missiles. The Douglas Thor is now being handled at Norton for the training squadrons at Vandenberg AFB, Calif., and for the Royal Air Force launching sites in Great Britain, Norton is slated for a similar mission for the Convair Atlas and Martin Titan.

ONR RADIOLoGICAL ANALYZER—The Office of Naval Research at the request of NASA has awarded a contract to Tracerlab, Waltham, Mass., to conduct research and development on a radiological analyzer for use in rocket vehicles, earth satellites and space problems.

POLARIS GUIDANCE—The Navy has announced that an inertial guidance system produced by the General Electric Ordnance Department at Pittsfield, Mass., guided the Lockheed Polaris missile in its fourth successful fully guided flight at Cape Canaveral, Fla., on 10 February. It was the sixth consecutive successful flight for the solid-propelled underwater IRBM.

The first fully guided POLARIS flight on 7 January of this year carried an M.I.T. guidance system. The three subsequent flights carried guidance systems produced by the G-E Ordnance Department.

AF "SUBMERGED SPACEMAN"—A 134-pound dummy spaceman completely submerged in water has been fired along the 35,000-foot missile test track at the Air Force Missile Development Center, Holloman AFB, N. M., to find out if a "water-cushioned" impact will help men to withstand smashing deceleration.

A special one-ton steel capsule, developed at Hawthorne, Calif., for the Air Research and Development Command by the Norair Division of Northrop Corporation, carried the water and the strapped-down dummy. The capsule was mounted on a rocket-powered sled known as Sonic Wind Number One, the same Northrop-designed sled that once hurled Col. John Paul Stapp—"the fastest man on earth"—along the Holloman track at 632 miles per hour.

NORTHROP COMPLETES AF SPACE STUDY

NORTHROP Corporation's Norair Division has completed an Air Force-sponsored long-range study of space systems.

The study, conducted under contract with the Space Systems Center, Wright Air Development Center, Air Research and Development Command, was directed by Norair's Astro Systems and Research Laboratories, assisted by the Weapons Systems Analysis Group, Human Engineering and Equipment Design Group, and Aero Sciences and Astrodynamics Group.

Northrop's Nortronics Division and Hughes Aircraft were associated with Norair in certain areas of the study project.

Norair is also conducting company-sponsored studies of space problems under the guidance of ARDC.

Douglas Defense V.P. Tells New Appointments

Appointment of P. L. Smith as Manager of Market Analysis-Defense Programs and R. W. Thaw as Representative of the company's St. Louis office is announced by C. R. Able, Douglas Aircraft Co., Vice-President-Defense Programs.

Mr. Smith has been assigned to the St. Louis post since 1958, while Mr. Thaw served in the company's general office's Defense Programs. Both appointments are effective immediately.

The newly created section headed by Mr. Smith will encompass the development and analysis of data on military market trends, Mr. Able said. Mr. Smith will report directly to A. V. Guillou, Director of Marketing-Defense Programs.

Reporting to the Vice President-Defense Programs, Mr. Thaw will serve as liaison to MATS, the Army Transportation Supply and Maintenance Command and the Air Training Command.

Signal Award To RCA

The Army has awarded RCA Defense Electronics Products, Camden, N. J., a \$7.9 million contract for continued production engineering for micro-module production system for electronic equipment. The Army Signal Supply Agency, Philadelphia, let the contract.

Dr. Arthur Of G-E Heads Astronautical Group

Dr. George R. Arthur has been re-elected President of the American Astronautical Society.

He is Systems Project Engineer of Advanced Space Vehicle Engineering for General Electric's Missile and Space Vehicle Department in Philadelphia.

Col. Robertson Will Be South Pacific Div. Deputy

Col. Robert R. Robertson will be assigned as Deputy South Pacific Division Engineer, San Francisco, effective 10 August.

He will succeed Col. Carleton M. Clifford, who is retiring 31 July.

Colonel Robertson since October 1957 has been Chief of the Technical Liaison Division, Office of the Chief of Engineers, Department of the Army, Washington, D. C.

Capt. Spriggs At Ft. Sam

Capt. Walter E. Spriggs, Jr., has assumed duties with the Fourth Army Transportation Section, Ft. Sam Houston, Tex., after duty as Assistant Aviation Safety Officer at Seventh Army Headquarters in Germany.

Captain Spriggs resides at 310 Frazer Road, San Antonio, with his wife, Opal, and four children, Walter, 17, Charles, 9, George, 13, and Patricia 3.

Douglas Gets Sky Bolt Green Light

Douglas Aircraft Company has been awarded an Air Force development contract for the air-launched ballistic missile Sky Bolt, which is expected to attain a range of 1,000 miles.

The award results from an evaluation made possible through completion of design study and feasibility tests.

Sky Bolt is a two-stage solid-propellant missile capable of hypersonic speeds. It will be fired from SAC bombers.

Douglas is assisted by several contractors, including Boeing, Nortronics Division of Northrop, General Electric, and Aerojet-General.

**Tullahoma Commander
Decorates Maj. Wareing**



MAJ. Joel T. Wareing receives the Air Force Commendation Medal at the ARDC Arnold Engineering Development Center, Tullahoma, Tenn., from Maj. Gen. Troup Miller, Jr., Commander, "for meritorious achievement as Project Engineer for the design and construction of the High Altitude Rocket Test Stand."

Major Wareing is now attending the Air Force Institute of Technology at Dayton, Ohio.

**DeHavilland Missile
Unit Changes Name**

The Board of Director of The de Havilland Aircraft of Canada, has changed the name of the company's Guided Missiles Division to the Special Products Division.

Major activities of the Special Products Division are concentrated in the field of infrared systems, static transistorized power supplies, thermionic and other advanced power developments, instrumentation, pneumatic, hydraulic and electrical control systems.

**Graduate Upgrade
Course At Mather**

Thirty SAC navigators have graduated from a B-52 upgrading program conducted by the 3535th Navigator Training Wing at Mather AFB, Calif.

The course instructed experienced navigators in the ground trainer version of bombing-navigation systems installed in Boeing B-52 Stratofortress aircraft.

Graduates of Class 60-2-B52X were: In Flight A—Maj. Charles L. Bowers, Jr.; Captains Robert O. Borger, Calvin J. Bradley, Gene E. Crissey, Lionell V. Dawson, Jr., Harry M. Fowler, Earle Q. Hagen, Jack A. Luse, James M. Smiers, and Lincoln L. White; First Lieutenants Kenneth D. Anderson, Kenneth W. Beauchamp, and Paul D. Fellows; Second Lieutenant Richard C. Wiksell.

Flight B—Majors Travis E. Kitchens, Clair W. Chellberg, and Roy M. Smart; Captains Clifford Appel, Bernard F. Chener, Francis P. Harrold, Benjamin M. Keller, Gerard W. Monier, John F. Rebolt, Bobby M. Sheets, and James A. Zaccagnini; First Lieutenants Robert W. Curry, Francis P. Hyland, Jr., Melvin L. Rossi, and Ross E. Tomlinson, Jr.

Captain Sheets of Flight B earned the highest grades.

First Lt. John Gillich, Jr., a Mather instructor, was also a member of the class.

**Mariner Sets Sights On Anti-Missile Defense;
Navy Cdr. Manages Army Ship In AF Range**

BALTIMORE, Md.

THE Nation's foremost missile tracking ship left here this week to help speed development of U. S. anti-missile defenses.

An Army craft under the management of retired Navy Cdr. John O'Shea, USNA '26, who works for the Radio Corporation of America, the American Mariner, a converted Liberty ship, is sailing toward the Air Force's Atlantic Missile Range to look down the nose of test missiles coming from Cape Canaveral, Fla.

Primary purpose of the voyage is to obtain information which would be helpful to the U. S. in developing anti-missile systems. Information obtained in the ship's first voyage is being used in the Army's Nike Zeus anti-missile missile system and in anti-missile research projects of the Advanced Research Projects Agency.

The Mariner uses radar, infra red devices, photography and visual observations to piece together the physical characteristics of ballistic missiles in flight.

No telemetered signals from the missiles themselves are picked up by the Mariner. These are monitored separately from Cape Canaveral and from land-based stations along the Atlantic Missile Range.

Although an Army ship, the Mariner's operations are funded by the Defense Department's Advanced Research Projects Agency. Most of the electronic and other gear aboard was obtained from existing Army, Navy and Air Force stocks.

As part of the DAMP (Down-range Anti-missile Measurement Program) operation, the Mariner is assisted by other DAMP centers at Croydon, Pa., and Morristown, N. J. These provide both data reduction and research facilities for the Mariner.

DAMP activities, which are carried out by Radio Corporation of America, are administered through Col. Joseph G. Duncan, III, USA, Commander of the Phila-

delphia Army Ordnance District, and the Army Rocket and Guided Missile Agency, Huntsville, Ala.

The Army Ordnance ship, a veritable floating laboratory of electronic equipment, has already participated in 14 successful and 5 unsuccessful missile firings.

This year her equipment will be supplemented by Navy (ARCAS) rockets and launchers.

The rockets will be fired to altitudes of up to 200,000 feet. They will carry metal-coated balloons for calibrating the ship's precision tracking radars, and furnishing meteorological data from altitudes above the range of lighter-than-air balloons. The ARCAS (All-purpose Rocket for the Collection of Atmospheric Soundings) is a low cost weather rocket furnished by the Office of Naval Research and manufactured by Atlantic Research Corporation, Alexandria, Va.

As DAMP systems management contractor, RCA's Missile and Surface Radar Division at Moorestown, N. J., designed and installed the ship's electronic equipment under Army contract, including radar tracking, navigation, and communication equipment.

Additional tracking equipment is provided and operated by the Barnes Engineering Co., of Stamford, Conn.

Data obtained on the ship's missions are flown to RCA's Data Reduction Center at Croydon, Pa., for analysis and distribution to 76 government agencies and scientific institutions.

Sixty scientists, engineers, and technicians, many of them from RCA's Missile and Surface Radar Division at Moorestown and the RCA Service Company, man the facilities for tracking, instrumentation, data recording and navigation.

These men remain at their posts on constant alert for as long as 30 hours at a time. The ship is at sea for periods of up to 45 days.

Administrator of the DAMP program for RCA is Mr. John C. Molthrop.

**Services Busy
At Squaw Valley**

When more than 750 athletes from 34 nations began competitions in the VIII Olympic Winter Games at Squaw Valley, Calif., 18 February, they were using winter sports facilities hacked out of a virtual wilderness by members of the U. S. Armed Forces under the overall supervision of the Army.

Extreme weather and topographical conditions of northern California presented a most difficult problem for the U. S. Olympic Organizing Committee. To assist this group, Congress offered the help of the Armed Forces more than a year ago in getting the job done.

The Sixth Army VIII Olympic Winter Games consolidated property account was established under the direction of Capt. Cecil A. Crowe, to facilitate the loan of equipment from the Army, Navy and Air Force to the Committee.

Gathered from military installations all over the nation, the equipment ranges from weasels, bulldozers, heavy tractors and trailers, jeeps and personnel carriers, to winter clothing, bedding and communications equipment. It is valued at more than \$2.5 million.

New approaches, trails, roads, starting platforms and rest stations had to be cut or built into the side of the hills. From Squaw Peak (8,885 feet) to Peacock Peak (7,566 feet), slopes over which courses for the six Alpine skiing events were laid, gullies had to be filled, trees felled and boulders removed from otherwise smooth trails.

Last summer, elements of the Army's 84th Engineer Battalion (Construction), Ft. Ord, Calif., and other military forces were used to assist Olympic experts in readying the courses. Dozers and graders were pressed into action. Trails were cut through the heavily wooded areas on the slopes to enable crews and equipment to reach the more difficult areas of the peaks.

The 10,000-car parking lot came through the courtesy of the Navy Snow Compaction team from Mobile Construction Battalion 10, Port Hueneme, Calif., under W. O. J. J. Hodmann. This team already converted 125 acres of snow covered ground into a hard-packed parking area.

**Ling-Altec Names
Defense Vice Pres.**

G. Emerson Pray has been elected Vice President of Ling-Altec Electronics, Inc., to direct the company's activities related to the national defense program. It is announced by James J. Ling, Chairman of the Board.

Mr. Pray will operate out of the Washington, D. C. office to facilitate the company's negotiations of prime and sub-contracts for its 14 operating subsidiaries and divisions actively engaged in governmental work. The Ling-Altec office in Washington is in the Investment Building, 1511 K Street, N.W.

A licensed professional engineer and physicist with a broad background of successful scientific work and experience in company management, Mr. Pray recently resigned as Assistant to the President and Director of Government Operations of Dresser Industries, Inc.

Mr. Pray holds an electrical engineering degree from Rensselaer Polytechnic Institute and a master of science in physics from Rutgers University. He has patented many of his inventions in the radio electronic and sonic fields, and is a well-known authority and lecturer in these areas of scientific research and development. He is a senior member of the Institute of Radio Engineers.

Ling-Altec, with headquarters in Dallas, is a leader in the high power and super power electronics field, as a producer of super power transmission equipment for radar, sonar and communications, and electronic vibration and acoustic testing systems.

**Top AF Ranks Have 26 In Non-Rated
Non-Flying Categories; Four L/Gen's**

THE Air Force has 18 non-rated officers and eight rated officers who are not on flying status in the rank of major general or above.

The list, including two active-duty USAFR officers and one retired officer, follows:

Non-Rated

Lieutenant General

William F. McKee, Vice Commander, Air Materiel Command
Joseph F. Carroll, The Inspector General

Major General

Frank A. Bogart, Director of Supply, AMC
James S. Cathro, DC, Asst. for Dental Service, OSG

Harold C. Donnelly, Asst. DCS/Plans and Programs

William P. Farnsworth, USAFR, The Auditor General

Terrence P. Finnegan, Chief of Air Force Chaplains

Robert J. Friedman, Director of Budget, AF Comptroller

Reginald C. Harmon, Judge Advocate General

Albert G. Hewitt, Director of Logistics Division, J-4, US European Command

Albert M. Kuhfeld, Assistant Judge Advocate General

Walter I. Miller, USAFR, DCS/Comptroller, USAF Europe

Augustus M. Minton, Director, Civil Engineering, DCS/Operations

Don R. Ostrander, Director, Office of Launch Vehicle Programs, NASA

Harlan C. Parks, Chief Army and AF Exchange Service

Harry C. Porter, Commander, Air Materiel Force, Pacific Area, AMC

William T. Thurman, Asst. for Production Programming, DCS/M
Moody R. Tidwell, Jr., JAG, Judge Advocate General, AMC

Rated (Not On Flying Status)

Lieutenant General

Oliver S. Picher, Director, The Joint Staff, JCS
William H. Tunner, Commander, MATS

Major General

Otis O. Benson, Jr., MC, Commander, Aerospace Medical Center, ATC
Charles B. Dougher, Chief, Aerospace Technical Intelligence Center

John P. Doyle, USAF-Ret., Director, Advisory Committee for TransStudy, Senate Interstate and Foreign Commerce Committee

Lloyd P. Hopwood, Director of Personnel Procurement and Training, DCS/P

Troup Miller, Jr., Commander, Arnold Engineering Development Center, ARDC

Dolf E. Muehleisen, DCS/Plans and Policy, J-5, Hq North American Air Defense Command

\$2,500 Prize For Book

The Ohio State University Press will award \$2,500 for the best book-length manuscript on the subject of national security. The contest is intended to stimulate ideas that will contribute to solutions of our national security problems.

Manuscripts may be devoted to the military, economic, political, ideological, scientific, or diplomatic aspect of national security. Deadline for entries is 1 April. For details write: The Ohio State University Press, 164 West 19th Ave., Columbus 10, Ohio.

General Weyland Joins Aerojet Board; Former Signal Chief Gets New Post

General O. P. Weyland, USAF-Ret., former head of the Tactical Air Command at Langley AFB, Va., has been named a consultant to Aerojet-General Corporation and a member of the Corporate Advisory Board. He retired last July after 36 years service.

Maj. Gen. George I. Back, USAF-Ret., former Chief Signal Officer, has been elected to the Board of Directors of Specialty Electronics Development Corporation, Syosset, N. Y. Also joining the board is **Brig. Gen. J. Harry LaBrun**, USAR, who during WWII was Deputy Chief Signal Officer of the Mediterranean Theater of Operations when General Back was Theatre Chief Signal Officer.

Lt. Gen. Manuel J. Asensio, USAF-Ret., has joined Texas Butadiene & Chemical International, Ltd., as Chief Executive Officer of the company's Argentine affiliate. He was Deputy CoS and Comptroller of the Air Force before his recent retirement.

M/G Randall of Marines Is Honored By Air Force



MAJOR Gen. Carey A. Randall, USMC, Ret., who served as Military Assistant to four successive Secretaries of Defense, received the first Oak Leaf Cluster to the Legion of Merit for "outstanding service to the United States Air Force" from General Thomas D. White, CofS, 11 February at the Pentagon.

General Randall, a participant in seven combat campaigns in the Pacific during WWII, retired for the second time 15 February, "at his request."

The General, who retired and was immediately recalled in 1957, and his wife, the former Mary Pearle Appleby of New Orleans, live at 210 Jackson Street, Arlington, Va.

Secretary of Defense Gates on 15 February presented the Distinguished Service Medal to General Randall.

The citation follows:

"For exceptionally meritorious service to the Government of the United States in a duty of great responsibility as Military Assistant to the Secretary of Defense from 17 September 1951 to 15 February 1960. During this period, and in this capacity, General Randall consecutively served four Secretaries of Defense. Through his inherent ability, great energy, and exceptional intellectual capacity, he was instrumental in facilitating the successful and rapid transition of each new incumbent in the Office of the Secretary of Defense. General Randall's grasp of not only the over-all problems of the Department of Defense, but also of the more detailed problems concerning the force structures of the Services, and of the budgetary problems connected with supporting those structures, enabled him to skillfully advise the successive Secretaries of Defense on high-level policy in the Department of Defense. Participating with the Secretary's advisory group during two reorganizations of the Department of Defense, his intimate knowledge of the organization of the Department was of inestimable assistance not only to the Secretary but to the other members of the advisory group in providing essential background on prior actions and the precise relationships existing within the functioning of the Department. Confidence in his ability, integrity and judgment has been shared by the senior officials, both military and civilian, in the Department of Defense, as well as in other departments and agencies of the government. General Randall's outstanding professional skill and conspicuous devotion to duty were in keeping with the highest traditions of the United States Naval Service."

"FOR THE PRESIDENT,
"THOMAS S. GATES"



Going up for "good seeing." Unmanned balloon-observatory starts its ascent to take sunspot photos. "Project Stratoscope" is a continuing program of the Office of Naval Research and the National Science Foundation.

L/G Putt Named AGARD Delegate

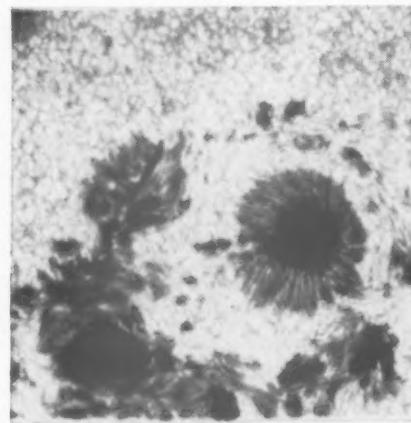
Lt. Gen. Donald L. Putt, USAF-Ret., President of the United Technology Corporation, has been appointed a U. S. national delegate to the NATO Advisory Group for Aeronautical Research and Development (AGARD). Other U. S. delegates are Dr. Theodore von Karman, Chairman, and Dr. Hugh Dryden, Deputy Administrator of the National Aeronautics and Space Administration.

The NATO Advisory Group was organized in 1951 at the suggestion of Dr. von Karman to assist the NATO countries to re-establish and coordinate their aeronau-

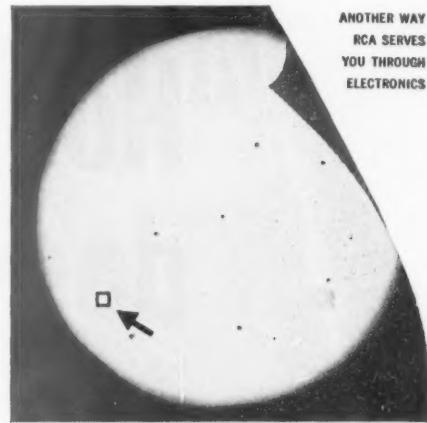
tical research and development activities. General Putt, who retired in 1958 after 30 years' service, was USAF Deputy CofS for Development.

Recently elected the 1960 president of the Institute of the Aeronautical Sciences, General Putt is also Chairman of the USAF Scientific Advisory Board and a member of the Board of Trustees of the System Development Corporation.

United Technology is a subsidiary of the United Aircraft Corporation and was organized to carry out research and development in propellants.



One of the sharpest photos ever taken of sun's surface. It, and hundreds of others taken by stratoscope, may answer mystery of violent magnetic disturbances on earth.



Exact position of photograph in relation to the total sun surface is shown here. Plotting and photography of precise areas was made possible by airborne RCA television.

RCA REPORTS TO THE NATION:

REMARKABLE NEW PHOTOS UNLOCK MYSTERIES OF SUN'S SURFACE

Special RCA Television, operating from stratosphere, helps get sharpest photos of sun's surface ever taken

Scientists recently took the first, sharp, searching look into the center of our solar system. It was achieved not by a missile, but by a balloon posted in quiet reaches of the stratosphere.

The idea was conceived by astronomers at the Princeton University Observatory. They decided that a floating observatory—equipped with a telescope-camera—would offer a stable "work platform" from which sunspots could be photographed free of the distortion caused by the earth's atmosphere.

But "Project Stratoscope" encountered an unforeseen and major obstacle on its initial flight. A foolproof method was needed for aiming and focusing the telescope of the unmanned observatory. Princeton asked RCA to help.

A special RCA television system was devised which enabled observers on the

ground to view exactly what the telescope was seeing aloft. This accomplished, it was a simple matter to achieve precise photography—directed from the ground by means of a separate RCA radio control system.

The resulting pictures reveal sunspot activities in unprecedented detail. They provide the world with important information regarding the magnetic disturbances which affect navigation and long-range communications.

The success of "Project Stratoscope" is another example of RCA leadership in advanced electronics. This leadership, achieved through quality and dependability in performance, has already made RCA Victor the most trusted name in television. Today, RCA Victor television sets are in far more homes than any other make.



RADIO CORPORATION OF AMERICA

THE MOST TRUSTED NAME IN ELECTRONICS

INDUSTRY IN DEFENSE

Defense Officials—Moving Van Leaders Plan Series Of Pentagon Meetings

Defense and industry leaders will meet again 29 February to plan better moving service for military families.

At their first meetings, 15-17 February, the Industry Advisory Committee reached agreement that military families deserve "top quality" service in the moving field. They will meet an average of once every two weeks until they complete their studies on the problem.

Deadline for submitting a new DoD policy on the shipment of family household goods is 1 July.

Defense Department officials had proposed a new "free choice" household goods policy late last year, but were forced to suspend it until July following strong protests at a meeting with industry representatives at the Pentagon in January.

The suspended policy would have given military families a greater say in determining the firm to move their household goods, and would have required local transportation officers to give preference to those moving companies which provided the highest quality of service at reasonable cost.

The policy evoked strong protests from Congressional sources, small movers and industry associations.

Defense Department officials report "substantial progress" at their meetings with industry representatives this week, but say that they do not know at this stage whether the results of their work will result in a policy similar to that announced last year or whether it will be entirely new.

The Pentagon officials say they are certain they can work out a policy which will satisfy "the fundamental requirement of giving military families the best quality service possible while representing the natural interests of the industry itself."

Need for better service in the shipment of household goods for military families was pointed up in a recent Defense Department study which showed that one-third of all military families were dissatisfied with the way their household goods shipments were handled.

Chairman of the Defense-Industry Committee is Dr. Gayton Germane, Director of Defense Department Transportation Policy.

Members are: Ernest Wheaton, President of the Movers Conference of America; Russell Garrett, Movers Committee for the Equitable Distribution of Government Traffic; Griswold Holman, President of the George G. Holman Co., Rutherford, N. J., representing the so-called "Big Four" (Allied, North American, Mayflower and United Van Lines); F. N. Melius, Freight Forwarders Institute; and Ralph W. Johnson, Vanpac Carriers, Richmond, Calif.



Those sharp-nosed missiles slung close to the fuselage beneath the wings of a SAC B-52 intercontinental bomber are GAM-77 Hound Dogs with a range of several hundred miles apiece. Thus equipped, the B-52 can reach out to blast enemy resistance points over a huge area along the route to its central target.

In actual combat the inertial guidance systems in the missiles would be fed their target locations, then the missiles would be released to find their way to target at supersonic speed.

Locked on target from the time of leaving the "mother ship," the missiles could be neither jammed nor decoyed.

Hound Dogs are now rolling off the production lines into flight test. Alternate missiles are being assigned to a crew, half of which consists of USAF men. This is part of the Air Force's "Blue Suit Integration Program."

The Missile Division of North American Aviation is the weapon system contractor for the GAM-77.

MISSILE DIVISION
NORTH AMERICAN AVIATION, INC.
Downey, California



HIGH MISSILE TOWER DEVELOPED BY ARMY

A 15-story high portable missile service structure, believed to be the tallest and heaviest pneumatic tire-mounted structure in this country, has been developed by the Army for use at missile test sites.

The portable service tower was developed by the Army Engineer Research and Development Laboratories, Ft. Belvoir, Va., for use in servicing missiles of the Redstone and Jupiter classes, or any missile up to 136 feet tall.

The tower was designed and built by the Noble Company, Oakland, Calif.

Previous missile towers have been either fixed or rail-mounted. The new 151-foot, 350,000-pound structure, however, is mounted on two base trailers of six wheels each.

Col. Meetze Fills B/G Chemical Post

Col. Adam W. Meetze has been appointed Deputy Chief Chemical Officer of the Army.

He was serving with the Weapons System Evaluation Group, Office of the Secretary of Defense at the time of his appointment.

Colonel Meetze fills the post vacated by Brig. Gen. William E. R. Sullivan, new President of the Chemical Corps Board at Army Chemical Center, Md.

Colonel Meetze is married to the former Vivian Alford of South Carolina. They have two sons, Lt. Henry W. Meetze, USA, now with the 3d Infantry, Germany, and Lt. Robert Y. Meetze, USAF, Greenville, Miss.

Army Civilian Commended For Missile Directory

Charles D. O'Leary, Development Branch, Research and Engineering Division of The Office of The Quartermaster General, has received commendation from Department of Defense officials, the Secretary of the Army and the Army Corps for his work in coordinating publication of a Department of Defense Technical Resources Directory on Ground Support Equipment for Missiles.

The Directory lists about 200 items of missile ground support equipment and the military technical organizations and personnel within each organization most familiar with each piece of equipment.

The Directory has been published to assist in standardization of equipment for missile support, and to encourage maximum use of available equipment rather than to permit the start of new development when existing equipment is available for a specific requirement.

The Directory is available from the Office of Technical Services at the Department of Commerce, Washington, D. C.

USNA Grad Gets D. C. Texas Instruments Post

Texas Instruments Incorporated of Dallas has appointed Dale V. Ness, a graduate of the U. S. Naval Academy, as manager of its Apparatus Division, Washington, D. C. Regional Office, to provide customer service to government, military and industrial agencies. Mr. Ness replaces G. L. McGowen, who has been named West Coast Military Relations Engineer for the TI Semiconductor Components Division.

Mr. Ness joined Texas Instruments in March 1959 following several years' experience in military sales with General Electric.

The Apparatus division of Texas Instruments provides the military and other government agencies with systems in the fields of missile/space electronics, radar, combat surveillance, and antisubmarine warfare.

Dr. Haywood, USMA '36 Joins Huyck Corp. Board

Mr. Grenville R. Holden, President of the Huyck Corporation, has announced election of Dr. Oliver G. Haywood, USMA '36, as Director of the Corporation.

Dr. Haywood will continue as a Group Vice President, responsible for instrumentation, military products and the corporate research program. Company military products, sold under the trade names Waldorf Fluid Systems and Waldorf Electronics, are principally in the fields of jet engine accessories, airborne instruments and navigation computers, and training simulators.

Dr. Haywood is also a member of the Board of the MITRE Corporation, a non-profit organization, formed in 1958 to provide systems engineering support for the Air Force Air Defense Systems Integration Division in Bedford, Mass.

He served in the Army Engineers and the U. S. Air Force until his resignation in 1953.

RCA Names New Plans Manager For Defense Unit

L. H. Orpin has been named Manager for Planning, Defense Electronic Products, Radio Corporation of America, it is announced by Arthur L. Malcarney, Executive Vice President.

Before joining RCA, Mr. Orpin was Director of Plans and Programs for the Stromberg-Carlson Company. Previously, he served in various management and planning positions for the Convair Division of General Dynamics Corporation. In 1949 and 1950, Mr. Orpin was with the Fairchild Engine and Airplane Corporation's Guided Missile Division on special assignment to manage environmental and experimental testing of the electronics and guidance systems for the Lark missile.

Mr. Orpin also has been staff specialist at the Massachusetts Institute of Technology's Radiation Laboratory where he worked on design and systems engineering of shipboard and airborne radars, radar beacons, radar bombing systems and blind landing devices for aircraft. He was sent to England shortly before D-Day to help set up a beacon system to guide paratroopers for the Eighth Air Force.

Atlas Tech Compliance

The first Contract Technical Compliance Inspection (CTCI) of any ICBM system was held 8-13 February at San Diego on the Convair Atlas. Executives of major U. S. defense industries, and leading Air Force missile generals, participated in the five-day program.

CTCI a formal Air Force procedure, calls for the builders of a weapon system to demonstrate that they have fulfilled all contractual requirements.

First phase of the Atlas CTCI, covered the missile itself and its related airborne equipment. Phases Two and Three, on remaining portions of the weapon system, will be held at Warren AFB near Cheyenne, Wyo., later in the year.

The CTCI Board is headed by Col. William T. Ensley of the AMC Ballistic Missiles Center at Los Angeles.

Industry & Naval Forces Plan Massive Exhibit

One of the most comprehensive exhibits of amphibious weapons and equipment ever assembled by Industry and the Naval Services will be on display 1-3 March during the Navy League's Fourth Annual Seapower Symposium at the Sheraton Park Hotel, Washington, D. C.

Mr. Thomas Meloy, President of Melpar, Inc., Seapower Symposium Chairman, said that about 50 of the Nation's leading manufacturers will exhibit their products, together with numerous Navy and Marine Corps displays.

The Seapower Symposium is sponsored annually by the Navy League's District of Columbia Council.

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THEY PREPARE INTELLIGENCE REPORTS

Membership of the United States Intelligence Board which prepares the national intelligence estimates used by the President, the Executive Agencies, and Congress was made public this week by the Central Intelligence Agency.

General Graves B. Erskine, USMC-Ret, Assistant to the Secretary of Defense.

Maj. Gen. John M. Willems, Assistant CofS of the Army for Intelligence.

RAdm. Laurence H. Frost, Assistant CNO for Intelligence.

Maj. Gen. James H. Walsh, Assistant CofS of the Air Force for Intelligence.

Lt. Gen. John A. Samford, USAF, Director, National Security Agency.

Maj. Gen. Robert A. Brietweiser, USAF, Director for Intelligence for the Joint Staff of the JCS.

Harry S. Traynor, Assistant General Manager of the Atomic Energy Commission.

Alan H. Belmont, Assistant Director of the FBI.

Allen W. Dulles, CIA Director, is chairman.



The 11th Armored Division Drives Through Germany: Men of the 11th Armored Division dash through the smoke-filled streets of Wernberg, Germany, in the final thrusts against the Nazis. The Rhine and Ruhr River action climaxed our large scale drives in the Reich. April 22, 1945.

...in the finest tradition of service

The traditions of serving freedom wherever it is threatened, and of rolling back the tide of tyranny wherever duty calls, have made the American flag and the American serviceman the world's most respected symbols of liberty. From the Pirates of Tripoli to the Communists of Korea, American servicemen have fought and stopped the tyrants.

We of Federal Services, our founders who were of the services and many of our staff who bore the arms of the country, hold in high regard these finest traditions of service. We aspire to serve in the same high manner—those who serve the nation.



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B/G BIGELOW IS ORDNANCE DEPUTY

BRIG. GEN. H. F. Bigelow, 52, is the new Deputy Chief of Army Ordnance. He succeeds Maj. Gen. August Schomburg, who assumed command 1 February of the Army Ordnance Missile Command, Redstone Arsenal, Ala.

Before being assigned as Acting Deputy early in January, General Bigelow, USMA '32, was Assistant Chief of Ordnance for Manpower, a post he had held since January 1959. He came to Washington in September 1958 from duty as G-4, U. S. Army, Japan, and was assigned as Chief of the Office of Manpower.

General Bigelow is married, and has two daughters, both of whom are married.

Pentagon Seeks \$14 Per Diem

THE Pentagon is hopeful Congress will take early action on a legislative request which would boost from \$12 to \$14 the per diem allowance in lieu of subsistence for Service members.

Under certain circumstances, Service Secretaries would be authorized to fix a maximum of \$25 per day to cover "actual necessary expenses."

The Defense Department estimates the cost of the bill would be \$14.6 million, of which the Air Force would receive \$8 million.

Noting that a Bureau of the Budget survey shows that the average cost of

subsistence items in the per diem was \$14.30 per day, the Defense Department said:

"It is believed that the proposed increase in the maximum allowable per diem in lieu of subsistence of \$14 per day is equitable in that it will provide authority to reimburse members of the Uniformed Services for the actual cost of travel expenses incurred on behalf of the Government."

The Pentagon noted that "military personnel are sometimes required to travel on assignments which necessitate personal expenditures well in excess of the reimbursement which would be obtained at the allowable per diem rate."

The point was made that meetings or conventions of private business of industry, at which Service representation is essential, frequently are held at expensive hotels.

The Pentagon noted that Service representatives attending such meetings frequently "have no choice but to stay at the convention hotel where even the cheapest rooms may exceed the entire per diem."

Sargo Third A-Sub To Reach Pole

The submarine Sargo is scheduled to return to Pearl Harbor 15 March after becoming the third atomic submarine to reach the geographic North Pole.

Under LCdr. John H. Nicholson, Sargo cruised 2,744 miles under the Arctic ice pack in 14 days, 21 hours, reaching the North Pole at 2:43 pm, EST on 10 February.

The purpose of the Sargo cruise was to continue explorations of the Arctic Basin in 1958 and 1959 by the Nautilus and Skate.

Commander Nicholson brought Sargo to the surface through the ice seven times.

Sargo's home port is at the Mare Island Naval Shipyard, Vallejo, Calif.

Missile Cruiser Slated For Pacific Service

The guided missile light cruiser Providence (CLG-6), built and commissioned at the Boston Naval Shipyard, has left Norfolk area 15 February for Puerto Rico and further weapons evaluations. On 25 February she will proceed to Guantanamo Bay, Cuba, for shakedown training.

Following shakedown training, the Providence will return to Boston, arriving about 11 May. Scheduled for eventual deployment to the Pacific Fleet, Providence is under command of Capt. Kenneth L. Veth.

American Airlines Chief Heads AF Stadium Drive

C. R. Smith, President of American Airlines, Inc., has accepted appointment as the chairman of a national campaign to raise \$3.5 million for a 40,000-seat stadium at the U. S. Air Force Academy.

Appropriated funds cannot be used for construction of such a facility.

A voluntary fund drive within the Air Force will start 15 April and continue for a month. Public solicitation will commence 15 May.

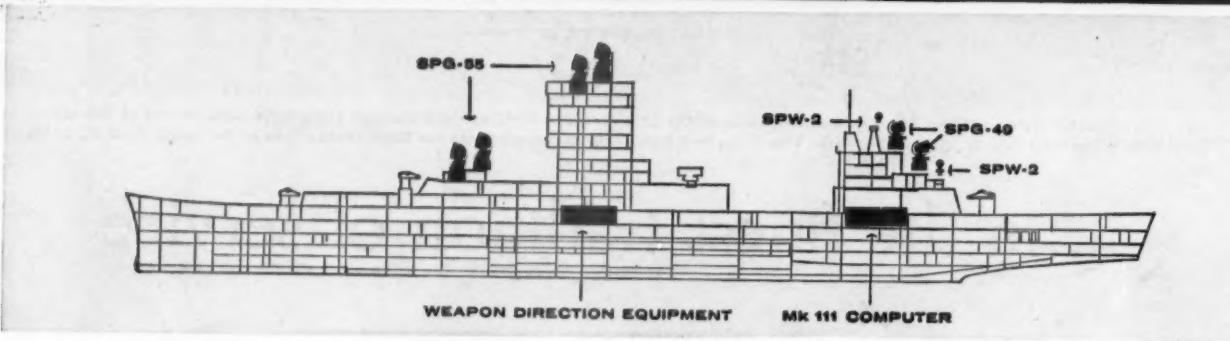
Present plans call for the stadium to be ready for use by the Air Force football team during the 1962 season.

L/C Marshall Succeeds Col. Flemming At Carson

Lt. Col. John W. Marshall, Executive Officer of 9th Division Artillery, Fort Carson, Colo., has been named 9th Division Artillery Commander.

He replaces Col. John K. Flemming, assigned to the Assistant Division Commander's staff.

...aboard the Navy's first nuclear-powered cruiser, the Long Beach

**Fire Control by SPERRY**

When the Navy's first nuclear-powered surface ship—the USS LONG BEACH—joins the fleet, she will have a cruise capability of better than 30 knots, with virtually unlimited range, and she will be armed with the surface-to-air Talos and Terrier missiles. The most advanced ship of her kind, the "CGN-9" will have the most advanced shipboard missile control equipment: Sperry.

Forward, Sperry SPG-55 missile-guidance radar directs the Terrier missile. Aft, Sperry SPG-49 super-radar

controls the longer range Talos missile. Amidships, and in the protected below deck region, are the brains of the systems, the computer complex. The Sperry Weapon Direction Equipment (WDE) evaluates target threat and decides which missile to fire at the selected target. The Sperry Mk 111 computer reads target position data from the SPG-49, calculates the best missile-to-target flight path, and positions the guidance beam generated by the Sperry SPW-2 Radar. Then it evaluates "kills."

With her combination of speed, range, firepower, and advanced Sperry fire control and navigation equipment, the LONG BEACH will make a formidable argument for peace when she joins the fleet.

SPERRY